

Texas GulfLink, LLC
Texas GulfLink Project



Title V Permit Application for Deepwater Port

PREPARED BY:



8591 United Plaza Blvd
Suite 300
Baton Rouge, LA 70809
(225) 755-1000

CK Project No. 17073

May 30, 2019
Revised February 28, 2020

Table of Contents

<u>Sec</u>		<u>Page</u>
1.0	INTRODUCTION.....	1
1.1	Project Description	1
1.2	Purpose.....	2
1.3	Company Identifying Information	3
1.4	Area Map.....	3
2.0	PROCESS DESCRIPTION.....	4
3.0	EMISSION RATE CALCULATIONS.....	6
3.1	Emissions Summary.....	6
3.2	Marine Loading [EPN (P) M-1].....	8
3.3	Diesel-Fired Electric Generator Engines [EPNs (P) G-1 and (P) G-2]	8
3.4	Diesel-Fired Portal Crane Engine [EPNs (P) C-1]	8
3.5	Day Tank Storing Diesel Fuel [EPN (P) DT-1]	9
3.6	Belly Tanks Storing Diesel Fuel [EPNs (P) BT-1, BT-2, BT-3, BT-4].....	9
3.7	Crude Oil Surge Tank [EPN (P) T-1]	9
3.8	Firewater Pump Engine [EPN (P) FWP-1]	9
3.9	Pipeline Pigging Operations [EPN (P) P-1].....	10
3.10	Platform Fugitive Emissions [EPN (P) F-1]	10
3.11	SPM System Fugitive Emissions [EPN (P) F-2]	11
3.12	Crude Sampling Activities [EPN (P) S-1].....	11
3.13	Routine Pump Maintenance [EPN (P) PM-1].....	11
3.14	Abrasive Blasting / Painting [EPN (P) MSS-1]	11
4.0	REGULATORY APPLICABILITY	13
4.1	Federal Air Regulations – 40 CFR	13
4.2	Texas Air Regulations – 30 TAC	19
5.0	FEDERAL BACT SUMMARY	21
6.0	PART 71 FORMS	23
7.0	CERTIFICATION OF COMPLIANCE	24

TABLES

- 2-1 Summary of Emission Sources at Deepwater Port Facility
- 3-1 Summary of Criteria and GHG PTE Rates for Deepwater Port Facility
- 3-2 Summary of H₂S and HAP PTE Rates for Deepwater Port Facility
- 5-1 Summary of Proposed Federal BACT

FIGURES (APPENDIX B)

- 1 Area Map
- 2 Simplified Process Flow Diagram (PFD)

APPENDICES

- A Company Identifying Information
- B Application Figures (Area Map and PFD)
- C Detailed Emission Rate Calculations
- D Detailed Regulatory Analysis (TCEQ Title V Forms)
- E Part 71 Forms (includes Certification of Compliance)

1.0 INTRODUCTION

Texas GulfLink, LLC plans to develop the Texas GulfLink Deepwater Crude Export Terminal project (“Project”), a proposed deepwater crude oil export terminal, located near Freeport, Texas, in Brazoria County. The Project will provide critical infrastructure to the Houston market to clear over supplied crude oil volumes from West Texas and the Midcontinent. As United States crude oil exports continue to increase, critical infrastructure along the Gulf Coast will be necessary to provide an efficient and safe solution for large-scale exporting to international markets. The completed facility will be capable of fully loading Very Large Crude Carrier (VLCC) vessels for the purpose of exporting crude oil to international markets.

1.1 Project Description

The Texas GulfLink Terminal Project will construct a Deepwater Oil Port near Freeport, Texas, capable of loading deep draft VLCC vessels. The Deepwater Port will deliver crude oil via an onshore crude pipeline to above-ground crude oil storage tanks. Upon nomination from the crude oil shipper, the oil will be transported to one of two floating Single Point Mooring (SPM) buoys in the Gulf of Mexico, approximately 32.5 nautical miles offshore, via a 42-inch pipeline. The SPM buoys will allow for VLCC vessels to moor and receive up to 2 million barrels of crude oil each to be transported internationally. A manned offshore platform, equipped with round-the-clock port monitoring, custody transfer metering, and surge relief will provide assurance that shippers’ commercial risks are mitigated and that the port is protected from security threats and environmental risks.

The Deepwater Port *offshore* facility will consist of the following assets:

- One 42-inch outside diameter, 32.5 nautical mile long crude oil pipeline will be constructed from the shoreline crossing in Brazoria County, Texas, to the Texas GulfLink Deepwater Port, for crude oil delivery. The pipeline, in conjunction with 12.3 statute miles of new-build 42-in onshore pipeline, will connect the onshore crude oil storage facility and pumping station (Jones Creek Crude Storage Terminal) to the offshore Texas GulfLink Deepwater Port. The crude oil will be metered departing the onshore terminal as it leaves the tank and again at the offshore platform, providing custody transfer and line surveillance.
- One fixed offshore platform structure, with 4 piles, located in the Galveston Outer Continental Shelf lease block 423, approximately 32.5 nautical miles off the coast of Brazoria County, Texas, in a water depth of approximately 105 feet. The fixed platform will be constructed with three decks, including generators, pig receivers, lease automatic custody transfer (LACT) unit, oil displacement prover loop, living quarters, electrical and instrumentation building, portal cranes, helideck, and a vessel traffic control room utilizing a state-of-the-art radar system.

- The Deepwater Port will utilize two (2) Single Point Mooring (SPM) buoys, each having:
 - Two (2) 24-inch inside diameter crude oil subsea hoses interconnecting with the crude oil pipeline end manifold (PLEM)
 - Two (2) 24-inch inside diameter floating crude oil hoses connecting the moored VLCC or other crude oil carrier for loading to the SPM buoy – The floating hoses will be approximately 1,100 feet in length and rated for 285 psig. Each floating hose will contain an additional 200 feet of 16-inch “rail tail hose” designed to be lifted and robust enough for hanging over the edge railing of the VLCC or other crude oil carrier. The subsea hoses will be approximately 160 feet in length and rated for 285 psig.
- Two (2) PLEMs will provide the interconnection between the pipelines and the SPM buoys. Each SPM buoy will have one (1) PLEM for crude oil export. Each crude oil loading PLEM will be supplied with crude oil by one (1) 42-inch outside diameter pipeline, each approximately 1.25 nautical miles in length.

The Deepwater Port *onshore* project components will consist of the following:

- New installed 9.45 miles of 36” pipeline from the Department of Energy (DOE) facility at Bryan Mound to the Texas GulfLink Jones Creek Crude Storage Terminal.
- The proposed Jones Creek Crude Storage Terminal located in Brazoria County, Texas, on approximately 200 acres of land consisting of twelve (12) above-ground domed external floating roof (DEFR) storage tanks, with a site-wide maximum storage capacity of approximately 8.5 million barrels of “sweet” crude oil.
- The Jones Creek Terminal will also include:
 - Six (6) electric-driven mainline crude oil pumps
 - Three (3) electric driven booster crude oil pumps
 - One (1) crude oil pipeline pig launcher
 - One (1) crude oil pipeline pig receiver
 - Two (2) measurement skids for measuring crude oil – one (1) skid located at the incoming pipeline from the Bryan Mound facility and one (1) skid installed for the outgoing crude oil barrels leaving the tank storage to be loaded on the VLCC
 - Ancillary facilities, to include an operations control center, electrical substation, offices, and warehouse building.

1.2 Purpose

Texas GulfLink, LLC respectfully submits this Title V permit application to authorize operation of the proposed offshore Deepwater Port, which is part of the Texas GulfLink Project. Title V of the Clean Air Act (CAA) requires operating permits for major stationary sources of emissions, which are regulated under Title 40 of the Code of Federal Regulations, Part 70 (40 CFR 70) for the state administered program, and 40 CFR 71 for the federally administered program. The operating

permit outlines the emission limits, applicable regulatory requirements, compliance, and operating conditions applicable to the emission units at a major source of emissions. As shown in Section 3.0 of this application, the proposed Deepwater Port Facility will be a major source under Title V because a regulated pollutant will be emitted in an amount greater than 100 tons per year (tpy). Therefore, the proposed facility will require a federal Title V operating permit under Part 71. For sources located outside of the state seaward boundary on the Outer Continental Shelf (OCS), the US EPA administers the Title V permit program. Therefore, Texas GulfLink, LLC is submitting this initial Title V operating permit application to the US EPA (Region 6). This application is being submitted using the TCEQ's Title V forms and the US EPA's Part 71 forms (Appendices D and E, respectively).

The requirements of a complete Title V permit application are defined in 40 CFR §71.5. The information presented in this application follows these requirements. Based on the requirements described in 40 CFR §71.9, each permit application requires an application fee that is based upon the actual emissions from the project. Form 5900-03 of Appendix E provides the application fee calculation worksheet. Because this permit application is being submitted as part of a Deepwater Port license application (i.e., submitted prior to the proposed project's operation), per US EPA guidance, there is no application fee associated with this submittal.

1.3 Company Identifying Information

Company identifying information is provided in this permit application, per the requirements of 40 CFR §71.5(c)(1). The TCEQ's CORE Data form (Appendix A) and OP-1 form (Appendix D) are used to provide this company information.

1.4 Area Map

Figure 1 in Appendix B is an area map showing the proposed Texas GulfLink Deepwater Port facility to be located approximately 32.5 nautical miles offshore the coast of Brazoria County, Texas. As shown in the map, the proposed facility will consist of a fixed platform and two Single Point Mooring (SPM) buoys for loading the VLCCs.

2.0 PROCESS DESCRIPTION

This section provides a process description of the proposed Texas GulfLink Deepwater Port Facility, as required by 40 CFR 71.5(c)(2). As described in detail in Section 1.1 of this application, the proposed Texas GulfLink Deepwater Port facility will consist of a permanently manned offshore platform with two associated single point mooring (SPM) buoys for the loading of Very Large Crude Carriers (VLCCs). Sweet crude oil, with a maximum Reid Vapor Pressure (RVP) of 10 psi, will be pumped via pipeline from the onshore Jones Creek Crude Storage Terminal to the Deepwater Port facility to be loaded into the VLCC vessels. Air pollutant emissions from Deepwater Port facility operation will result from the following emission sources (Emission Point Number, EPN, given):

- VOC emissions from marine loading of crude oil into VLCC vessels [EPN (P) M-1]
- Combustion emissions from 2 diesel electric generator engines [EPNs (P) G-1 and (P) G-2]
- Combustion emissions from 1 diesel portal crane engine [EPN (P) C-1]
- VOC emissions from 1 fixed roof tank storing diesel fuel [EPN (P) DT-1]
- VOC emissions from 4 “belly” tanks (i.e., diesel fuel tanks for electric generators, FWP, and crane engines) [(P) BT-1, BT-2, BT-3, and BT-4]
- VOC emissions from 1 fixed roof crude oil surge tank [EPN (P) T-1]
- Combustion emissions from 1 diesel emergency firewater pump engine [EPN (P) FWP-1]
- VOC emissions from pipeline pigging operations [EPN (P) P-1]
- Fugitive VOC emissions from the platform piping components [EPN (P) F-1]
- Fugitive VOC emissions from piping components on 2 SPM loading buoys [EPN (P) F-2]
- VOC emissions from crude oil sampling activities [EPN (P) S-1]
- VOC emissions from pump maintenance [EPN (P) PM-1]
- VOC and PM emissions from maintenance-related abrasive blasting/painting [EPN (P) MSS-1]

A summary of each EPN, its description, and expected pollutants is presented in Table 2-1.

Table 2-1: Summary of Emission Sources at Deepwater Port Facility

EPN *	Description	Pollutant
(P) M-1	Marine loading into VLCCs	VOC **
(P) G-1	Diesel-fired electric generator engine	Combustion ***
(P) G-2	Diesel-fired electric generator engine	Combustion
(P) C-1	Diesel-fired portal crane engine	Combustion
(P) DT-1	Day tank storing diesel fuel (fixed roof)	VOC
(P) BT-1	Belly Tank 1	VOC
(P) BT-2	Belly Tank 2	VOC
(P) BT-3	Belly Tank 3	VOC
(P) BT-4	Belly Tank 4	VOC
(P) T-1	Crude oil surge tank (fixed roof)	VOC

EPN *	Description	Pollutant
(P) FWP-1	Diesel-fired emergency firewater pump engine (<i>MSS activity</i>)	Combustion
(P) P-1	Pipeline pigging operations (<i>MSS activity</i>)	VOC
(P) F-1	Fugitives from platform piping component leaks	VOC
(P) F-2	Fugitives from SPM piping component leaks	VOC
(P) S-1	Crude oil sampling activities	VOC
(P) PM-1	Routine pump maintenance (<i>MSS activity</i>)	VOC
(P) MSS-1	Painting/Abrasive Blasting (<i>MSS activity</i>)	VOC, PM ₁₀ /PM _{2.5}

* (P) stands for Platform

** VOC emissions include speciated hazardous air pollutants (HAPs) such as benzene

*** Combustion pollutants are NO_x, CO, SO₂, PM, PM₁₀, PM_{2.5}, GHG (CO₂e), and un-combusted VOC

A simplified process flow diagram illustrating the offshore Deepwater Port's process is provided as Figure 2 in Appendix B of this application.

3.0 EMISSION RATE CALCULATIONS

As required by 40 CFR 71.5(c)(3), this section provides a description of the estimated emission rates for the proposed Deepwater Port Facility of the Texas GulfLink Project. Operation of the offshore facility will result primarily in emissions of volatile organic compounds (VOC). Lesser amounts will be emitted of nitrogen oxides (NO_x), sulfur dioxide (SO₂), carbon monoxide (CO), hydrogen sulfide (H₂S), particulate matter (PM), including PM with an aerodynamic diameter of 10 microns or less (PM₁₀) and 2.5 microns or less (PM_{2.5}), and hazardous air pollutants (HAPs), including benzene. Greenhouse gas (GHG) emissions, expressed as carbon dioxide equivalents (CO₂e), were also estimated. Annual average (tons/yr) emission rates were estimated for each source of emissions. The emissions are on a Potential-to-Emit (PTE) basis. A summary of the site-wide total annual PTE rates for criteria and GHG pollutants is given in Table 3-1 below. A summary of site-wide total annual hydrogen sulfide (H₂S) and HAP emission rates is given in Table 3-2 below. Detailed emission rate calculations are provided in Appendix C of this application.

Note that only those offshore pollutant emissions associated with the Deepwater Port Facility that can be permitted are addressed in this Title V permit application. Other offshore emissions associated with the Texas GulfLink Project, including those from construction and “indirect” sources (e.g. tug/pilot boats, other vessels, etc.), are not included in this permit application; however, these emissions are addressed in the Emission Impacts Analysis section of the deepwater port license application.

3.1 Emissions Summary

Table 3-1 summarizes the site-wide total annual PTE emission rates of the criteria and greenhouse gas (CO₂e) pollutants for the proposed Deepwater Port Facility.

Table 3-1: Summary of Criteria and GHG PTE Rates for Deepwater Port Facility

EPN	Source	CO ₂ e		PM ₁₀		PM _{2.5}		SO ₂		NO _x		CO		Total VOC	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
(P) M-1	Marine Loading													4,709.72	9,679.15
(P) G-1	Generator 1	4,856	4,406	0.32	1.39	0.32	1.39	0.01	0.05	9.92	43.45	5.57	24.40	0.27	1.16
(P) G-2	Generator 2	4,856	4,406	0.32	1.39	0.32	1.39	0.01	0.05	9.92	43.45	5.57	24.40	0.27	1.16
(P) C-1	Crane 1	485	2,132	0.14	0.61	0.14	0.61	0.01	0.02	2.59	11.32	2.45	10.71	0.21	0.92
(P) DT-1	Day Tank 1													0.001	0.01
(P) BT-1	Belly Tank 1													0.0002	0.001
(P) BT-2	Belly Tank 2													0.0002	0.001
(P) BT-3	Belly Tank 3													0.0002	0.001
(P) BT-4	Belly Tank 4													0.00002	0.0001
(P) T-1	Surge Tank													0.40	1.74
(P) FWP-1	MSS - Firewater Pump	5	20	0.12	0.01	0.12	0.01			2.12	0.11	2.01	0.10	0.18	0.01
(P) P-1	MSS - Pigging Operations													83.76	0.50
(P) F-1	Platform Fugitive Emissions													0.03	0.12
(P) F-2	SPM System Fugitives													0.10	0.44
(P) S-1	Sampling Activities													0.10	0.05
(P) PM-1	MSS - Pump Maintenance													4.00	0.002
(P) MSS-1	MSS - Abrasive Blasting / Painting			0.01	0.06	0.002	0.01							0.06	0.26
TOTAL EMISSIONS (TPY)		10,201	10,965	0.91	3.47	0.89	3.42	0.03	0.13	24.54	98.33	15.60	59.60	4,799.10	9,685.53

Per 40 CFR 71.2 (Definitions), a stationary source of emissions is major under Title V if it has annual Potential-to-Emit (PTE) emission equaling or exceeding any of the following thresholds:

- 100 tons per year (tpy) of a regulated air pollutant (except GHGs);
- 10 tpy of an individual Hazardous Air Pollutant (HAP); or
- 25 tpy of any combination of total HAPs.

The facility-wide PTE emission rates shown in Table 3-1 above indicate that the Deepwater Port Facility will be subject to Title V air permitting because VOC will exceed the 100 tpy major source threshold. However, the facility will be considered minor with respect to Title V for all other non-HAP pollutants because their emission rates will all be under the 100 tpy major source threshold. GHG emissions, expressed as carbon dioxide equivalent (CO₂e), will be less than 100,000 tpy; therefore, the facility will be considered minor for Title V with respect to GHG.

As shown in Table 3-1, the total site-wide VOC emission rate is greater than the PSD major source emissions threshold of 250 ton/yr. Because emissions of VOC trigger PSD for the facility, the other pollutants' emission increases are compared to their respective PSD *significance* thresholds. The PSD significance threshold for NO_x is 40 tpy; therefore, as shown in the table, PSD is triggered for NO_x as well. The other pollutants have proposed PTE emissions below their respective PSD significance thresholds; thus, the facility is considered minor with respect to PSD for these pollutants. The PSD permit application for the proposed Texas GulfLink Project is submitted under separate cover.

Table 3-2 summarizes the site-wide total annual (tpy) PTE emission rates of H₂S and HAP pollutants for the proposed Deepwater Port Facility.

Table 3-2: Summary of H₂S and HAP PTE Rates for Deepwater Port Facility

EPN	Source	H ₂ S		Acetaldehyde		Benzene		Isopropylbenzene		Ethylbenzene		Formaldehyde		Hexane (-n)		2,2,4-Trimethylpentane (isooctane)		Toluene		Xylene (-m)	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
(P) M-1	Marine Loading	0.12	0.05			20.78	42.70	0.16	0.33	1.39	2.86			107.53	220.99	1.79	3.67	10.17	20.90	4.08	8.38
(P) G-1	Generator 1			0.0002	0.001	0.01	0.02					0.001	0.002					0.002	0.01	0.002	0.01
(P) G-2	Generator 2			0.0002	0.001	0.01	0.02					0.001	0.002					0.002	0.01	0.002	0.01
(P) C-1	Crane 1											0.004	0.02								
(P) DT-1	Day Tank 1																				
(P) BT-1	Belly Tank 1																				
(P) BT-2	Belly Tank 2																				
(P) BT-3	Belly Tank 3																				
(P) BT-4	Belly Tank 4																				
(P) T-1	Surge Tank					0.002	0.01			0.0001	0.001			0.01	0.04			0.001	0.004	0.0003	0.002
(P) FWP-1	MSS - Firewater Pump																				
(P) P-1	MSS - Pigging Operations					0.37	0.002							1.91	0.01			0.18	0.001		
(P) F-1	Platform Fugitive Emissions						0.0007062							0.0005	0.002				0.001177	0.0004	0.002
(P) F-2	SPM System Fugitives																				
(P) S-1	Sampling Activities																				
(P) PM-1	MSS - Pump Maintenance																				
(P) MSS-1	MSS - Abrasive Blasting / Painting																				
TOTAL EMISSIONS (TPY)		0.12	0.05	0.0003	0.001	21.16	42.75	0.16	0.33	1.39	2.86	0.005	0.02	109.45	221.04	1.79	3.67	10.36	20.92	4.08	8.39

As described above, the major source threshold for HAPs is 10 tpy for an individual HAP or 25 tpy of the aggregate of all HAPs. As shown in Table 3-2 above, there are individual HAPs that will have emission rates greater than 10 tons/yr (i.e., benzene, n-hexane, and toluene). Additionally, the aggregate total emissions from all HAPs is greater than 25 tons/yr. Therefore, the Deepwater Port Facility will be considered major with respect to HAPs, thus, major with respect to Title V. As described in Section 4.0 of this application, the applicability of federal air quality rules was determined based upon the Deepwater Port Facility being considered major for HAPs.

3.2 Marine Loading [EPN (P) M-1]

Crude oil will be loaded into VLCCs at the Deepwater Port at a proposed annual rate of 365 million barrels per year (bbl/yr). The maximum hourly rate (lb/hr) for crude loading will be 85,000 bbl/hr. VOC emissions from loading were estimated using EPA emission factors from AP-42, Chapter 5, Section 5.2. Equation (2) in this section was developed specifically for estimating emissions from the loading of crude oil into ships and ocean barges.

Based upon expected crude oil slates, a Reid Vapor Pressure (RVP) of 10 psi was assumed for the marine loading emission rate calculations. The maximum and average H₂S concentrations in the sweet crude were assumed to be 25 parts per million by volume (ppm_v) and 5 ppm_v, respectively. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program and then modified for site-specific assays to include n-hexane as a speciated HAP.

3.3 Diesel-Fired Electric Generator Engines [EPNs (P) G-1 and (P) G-2]

Two 650 KW electric generators will be used to supply electricity to the platform. Maximum emission rates for the combustion pollutants of NO_x, CO, PM/PM₁₀/PM_{2.5}, and un-combusted VOC were estimated using emission factors from 40 CFR 89.112(a) Table 1, as referenced by 40 CFR 60, NSPS IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The maximum emission rate for the combustion pollutant SO₂ was estimated using the emission factor from AP-42, Chapter 3.4 (for “large” stationary diesel-fired generators), Table 3.4-1. The SO₂ factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S₁, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel).

3.4 Diesel-Fired Portal Crane Engine [EPNs (P) C-1]

A 425 hp (317 KW) portal crane will be used on the platform. Maximum emission rates for the combustion pollutants of NO_x, CO, PM/PM₁₀/PM_{2.5}, and un-combusted VOC were estimated using emission factors from 40 CFR 89.112(a) Table 1, as referenced by 40 CFR 60, NSPS IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The maximum emission rate for the combustion pollutant SO₂ was estimated using the emission factor from AP-42, Chapter 3.4 (for “large” stationary diesel-fired generators), Table 3.4-1. The

SO₂ factor was obtained by multiplying the factor in the table (0.00809 lb/hp-hr) with S₁, which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel).

3.5 Day Tank Storing Diesel Fuel [EPN (P) DT-1]

The Deepwater Port will include a fixed-roof tank used to store diesel fuel, with a storage capacity of 20,000 gallons. VOC emissions were calculated using U.S. EPA's TANKS 4.09d program. The throughput is proposed to be 300,000 gallons per year. The HAP speciation profile was obtained from the default speciation for diesel in the TANKS 4.09d program.

3.6 Belly Tanks Storing Diesel Fuel [EPNs (P) BT-1, BT-2, BT-3, BT-4]

VOC emissions were estimated from 4 "belly" tanks (i.e., tank is part of the equipment and not stand-alone) storing diesel fuel. These tanks are associated with the 2 electric generators, the portal crane, and the firewater pump. The belly tanks associated with the electric generators and portal crane are expected to have a maximum diesel throughput of approximately 100,000 gal/year. Because the firewater pump is emergency use only, the diesel fuel throughput for it was assumed much less, approximately 1,000 gal/year. The EPA's TANKS 4.09d program was used to estimate VOC emissions from all 4 tanks. The HAP speciation profile was obtained from the default speciation for diesel in the TANKS 4.09d program.

3.7 Crude Oil Surge Tank [EPN (P) T-1]

The proposed Deepwater Port will include one fixed roof tank used as a surge tank, with a storage capacity of 84,000 gallons. VOC emissions were calculated using U.S. EPA's TANKS 4.09d program. Based upon expected crude slates, a Reid Vapor Pressure (RVP) of 10 psi was assumed for the surge tank emission calculation. The throughput is proposed to be 84,000 gallons per year. The average H₂S concentration in the sweet crude was assumed to be 5 ppm_v. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program and then modified for site-specific assays to include n-hexane as a speciated HAP.

3.8 Firewater Pump Engine [EPN (P) FWP-1]

The emergency-use firewater pump (FWP) engine will be started periodically to ensure its proper operation. Maximum emission rates for the combustion pollutants of NO_x, CO, PM₁₀/PM_{2.5}, and un-combusted VOC were estimated using emission factors from 40 CFR 60, Subpart IIII, Table 4 [225≤kW<450 (300≤Hp<600)]. The PM factor in this table was used for both PM₁₀ and PM_{2.5}. The NMHC + NO_x factor in the table was used for VOC and NO_x by assuming 92% NO_x and 8% VOC, based on the ratio of the NO_x to VOC AP-42 emission factors. The maximum emission rate for the combustion pollutant SO₂ was estimated using the emission factor from AP-42, Chapter 3.4 (for "large" stationary diesel-fired generators), Table 3.4-1. The SO₂ factor was obtained by

multiplying the factor in the table (0.00809 lb/hp-hr) with S_1 , which is the sulfur content in the fuel, in this case 15 ppm_v (0.0015%). Finally, the emission factors for GHG were obtained from 40 CFR 98, Tables C-1 and C-2, assuming Distillate Fuel Oil No. 2 (for diesel). The engine will be operated as part of reliability testing for no more than 100 hours per year. This reliability testing is considered a Maintenance, Startup, and Shutdown (MSS) activity.

3.9 Pipeline Pigging Operations [EPN (P) P-1]

VOC emissions will result from pipeline pigging operations at the offshore Deepwater Port. Emissions were estimated for pig launching and receiving using the worst-case operation as the emissions basis for the application. The volume (actual cubic feet) of each pig launcher and receiver was calculated based on the inside diameter and length. Because the receiver is at pressure (≤ 1 psig) before it is opened, the volume of gas inside (assumed to be entirely emitted to atmosphere) is corrected to standard volume (standard cubic feet).

VOC emissions were calculated by, first, dividing the standard volume (scf) of the chamber vapor to the molal volume of an ideal gas (385.3 scf/lb-mol) to obtain the lb-mol of emitted vapor when the chamber is opened to the atmosphere. Then, to obtain the mass rate, the vapor molecular weight of crude oil (50 lb/lb-mol) was multiplied to the lb-mol of emitted vapor. This calculation results in a mass rate per receiving event (lb/event). To obtain a maximum hourly rate (lb/hr) and annual average rate (tpy), it was assumed that a single pigging event will last for a half hour, and that the maximum number of pigging events per year will be 12 events.

3.10 Platform Fugitive Emissions [EPN (P) F-1]

Fugitive VOC emissions will result from assumed small emission leaks from piping components such as valves, connectors (flanges), and pump seals. Emission factors from TCEQ's guidance document, *Air Permit Technical Guidance for Chemical Sources – Fugitive Guidance* (APDG 6422, June 2018), were used to estimate VOC emissions. Specifically, the "Petroleum Marketing Terminal" (PMT) factors from Table II of the document were used, which factors assume a 28 PET leak detection and repair (LDAR) program will be implemented. The PMT emission factors were chosen based on the TCEQ's memo dated 12/5/2005 allowing these factors for equipment components in pipeline breakout stations for crude oil and fuel service (gasoline, diesel, and jet fuel). The proposed Texas GulfLink *onshore* tank terminal is a pipeline breakout station, and the crude oil from that facility is transferred directly to the offshore platform for loading into ships. So, the crude oil in the offshore platform piping is, by extension, oil from a crude pipeline breakout station.

The 28PET leak detection and repair (LDAR) program is specific to petroleum marketing terminals and involves an audio, visual, and olfactory (AVO) inspection of the above-ground pipeline system. An emissions control credit is included in the emission factors, so no other control credits were applied.

For the calculations, based on vapor pressure, crude oil is assumed to be a “Light Liquid”. The total VOC emission rate was obtained by multiplying the count of a particular component (e.g. valve) by the component’s emission factor in Light Liquid service, then summing the emissions from all components. The average H₂S concentration in the sweet crude was assumed to be 5 ppm_v. The HAP speciation profile was obtained from the default speciation for crude oil in the TANKS 4.09d program and then modified for site-specific assays to include n-hexane as a speciated HAP.

3.11 SPM System Fugitive Emissions [EPN (P) F-2]

Valves and flanges associated with the 2 Single Point Mooring (SPM) buoys are assumed to emit VOC. To estimate these emissions, emission factors were obtained from *Table 4, Average Emission Factors – Petroleum Industry (Oil & Gas Production Operations) of TCEQ's Addendum to RG-360A, Emission Factors for Equipment Leak Fugitives Components*, January 2008. Specifically, the factors for Oil and Gas Production Operations, for Light Oil > 20° API were used because none of the emission factor source categories (i.e., for SOCFI, Oil and Gas Production, Refinery, or Petroleum Marketing Terminal) reasonably apply to an SPM system. The worst-case (highest) factors for the valves and flanges making up the two SPM systems were chosen, which were the Oil and Gas Production Operation factors for Light Oil > 20° API. Note that use of these factors does not require a monthly AVO; therefore, Texas GulfLink does not plan on conducting an AVO inspection of the two SPMs. Light liquid emission factors were used, and emissions were conservatively estimated to be 100% VOC.

3.12 Crude Sampling Activities [EPN (P) S-1]

Crude oil assay quality testing will occur at the offshore platform. The crude oil will be sampled, and its physical and chemical properties will be determined for quality assurance. Very small VOC emissions will occur as a result of this sampling activity. To estimate VOC emissions, it was assumed that 1 sample would be taken each work shift, with 3 shifts per day. A VOC emission of 0.1 lb/sample was assumed.

3.13 Routine Pump Maintenance [EPN (P) PM-1]

The 4 proposed electric-driven crude oil pumps at the offshore platform will need periodic maintenance. Very small amounts of VOC emissions will result from opening and draining the pumps. The emissions were estimated assuming 1 lb of VOC will be emitted per maintenance event, and that there will be one maintenance event for each of the four pumps per year.

3.14 Abrasive Blasting / Painting [EPN (P) MSS-1]

The proposed offshore platform coatings will have a designed life of 20+ years. Sandblasting and recoating of the platform structure should not be required within this period, other than spot maintenance where coatings may be damaged by contact with metal objects such as hammers,

wrenches, or scaffolding. However, to comply with NEPA requirements, potential maximum hourly (lb/hr) and annual average (tons/yr) emission rates were estimated for PM emissions from abrasive blasting and VOC emissions from painting.

For PM₁₀/PM_{2.5} emissions from abrasive blasting, an application rate of 2,000 lb/hr was assumed. Per industry expertise and best management practices, it was assumed that sandblasting would occur for 8 hours per day and a cumulative total 5 days per year (i.e., a total of 40 hours per year). An uncontrolled PM₁₀ emission factor of 0.0014 lb/lb usage was assumed based on the TCEQ's Abrasive Blast Cleaning technical guidance document (RG-169, March 2001). This factor assumes silica sand is used as the blasting media and the factor is higher (more conservative) than the PM₁₀ factor of 0.00034 lb/lb usage assuming coal slag is used as the blasting media. Finally, based on this TCEQ guidance, the PM_{2.5} emissions factor is assumed to be equal to 15% of the PM₁₀ emissions factor.

Potential VOC and PM emissions were estimated from miscellaneous painting activities. VOC emissions were estimated for the manual application of paint for touch-ups and the use of aerosol cans containing spray paints, primers, degreasers, cleaners and other solvents, and rust inhibitors. VOC and PM emissions were estimated for the spray painting of fixed structures (e.g. tanks). Conservatively, 100% of the VOC content (lb VOC/gal) of all painting materials was assumed to evaporate to the atmosphere. PM emissions from spray painting were estimated using assumed PM_{10/2.5} content, transfer efficiency, and droplet factors for overspray. The detailed painting calculations are shown in Appendix C of this PSD application.

4.0 REGULATORY APPLICABILITY

In this section, potentially applicable federal and state air regulations are reviewed for the proposed Texas GulfLink Deepwater Port Facility. Note that the US Environmental Protection Agency (EPA) does not normally administer the Clean Air Act (CAA) in the western Gulf of Mexico because under CAA Section 328, the Department of Interior's Bureau of Ocean Energy Management (BOEM) is responsible for regulating outer continental shelf (OCS) sources, as defined by the OCS Lands Act, in that area. However, because the proposed Deepwater Port Facility will not be a defined OCS source, Section 328 does not apply. Instead, the EPA is the CAA permitting authority for non-OCS sources in federal waters.

The EPA regards a provision of the Deepwater Port Act (DPA), 33 U.S.C. §1501, *et seq*, as the primary source of its authority to apply the CAA to activities associated with deepwater ports. The DPA applies federal law, and applicable State law, to deepwater ports and further designates deepwater ports as "new sources" for CAA purposes. Accordingly, for the source's pre-construction and operating permits, EPA will rely on the provisions of Title 1 and Title V, respectively, of the CAA supporting applicable regulations, and on the State's law to the extent applicable and not inconsistent with federal law.

Section 4.1 below describes the potentially applicable federal air regulations in Title 40 of the Code of Federal Regulations (40 CFR). Section 4.2 below describes the potentially applicable Texas air regulations in Title 30 of the Texas Administrative Code (30 TAC), as administered by the Texas Commission on Environmental Quality (TCEQ). Appendix D of this application contains a detailed regulatory analysis of the applicable regulations summarized in the sections below. Because Texas is the nearest adjacent state to the proposed offshore Texas GulfLink Deepwater Port Facility, TCEQ Title V forms are used to document this detailed analysis.

4.1 Federal Air Regulations – 40 CFR

The federal air regulations reviewed include New Source Performance Standards (NSPS) in 40 CFR Part 60, National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 61, and NESHAP for Source Categories (which outlines Maximum Achievable Control Technology, "MACT") in 40 CFR Part 63. Note that the applicability of 40 CFR Parts 70 (State) and 71 (Federal) Title V programs was described in Section 1.2 of this permit application.

NSPS – 40 CFR Part 60

Subpart A: General Provisions

Any emission source subject to a specific NSPS is also subject to applicable general provisions in this subpart. Unless specifically excluded by the source-specific NSPS, Subpart A generally requires initial construction notification, initial startup notification, performance tests/notifications, general monitoring requirements, general recordkeeping requirements, and semi-annual monitoring and/or excess emission reports. Because the proposed Texas GulfLink

Deepwater Port Facility will be subject to one or more source-specific NSPS, the facility will comply with the applicable general provisions under Subpart A.

Subparts D, Da, Db, Dc: Steam Generating Units

The proposed Deepwater Port Facility will not operate a defined steam generating unit (SGU). Therefore, these rules that apply to SGUs do not apply.

Subparts Kb: Petroleum Liquid Storage Vessels Constructed, Reconstructed, or Modified after July 23, 1984

This subpart applies to a storage vessel with a capacity greater than or equal to 20,000 gallons that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification commenced after July 23, 1984. However, the subpart does not apply to a storage vessel with a capacity greater than or equal to 40,000 gallons storing a liquid with a maximum true vapor pressure (TVP) less than 0.5 psia, or with a capacity between 20,000 and 40,000 gallons storing a liquid with a maximum TVP less than 2.2 psia.

Although the proposed crude surge tank at the Deepwater Port Facility [EPN (P) T-1] will have a capacity greater than 40,000 gallons, it will not be operated as a storage tank. Surge/relief tanks are different from traditional storage tanks since they do not typically hold liquids during normal operations. Such tanks will receive liquids only during a sudden surge event for which the tank will serve as “relief” and quickly receive the excess liquids for a brief period prior to being returned to the pipeline. The surge tank will not typically contain any crude oil. Therefore, this subpart does not apply to the surge tank. Additionally, the proposed fixed roof diesel-fuel storage tank [EPN (P) DT-1] will have a storage capacity of 20,000 gallons, but the TVP of diesel is significantly less than 2.2 psia. Therefore, the diesel-fuel tank will also not be subject to this rule. Finally, the “belly” tanks shown in the emission calculations are tanks that are part of the electric generators, portal crane, and firewater pump engine housing. They are not considered stand-alone tanks and are not subject to this regulation.

Subpart GG: Gas Turbines

The proposed Deepwater Port Facility will not operate a stationary gas turbine. Therefore, this rule does not apply.

Subpart IIII: Stationary Compression Ignition IC Engines

This subpart applies to compression ignition (CI) engines. There will be a total of 4 CI engines located at the Deepwater Port Facility driving: 2 electric generators, 1 emergency firewater pump, and 1 portal crane. All 4 engines will be constructed after the applicable date of July 11, 2005. Therefore, the Deepwater Port Facility will comply with the applicable provisions of this subpart for the 4 CI engines.

Subpart JJJJ: Stationary Spark Ignition IC Engines

This subpart applies to spark ignition (SI) engines. The proposed Deepwater Port Facility will not operate any SI engines. Therefore, this rule does not apply.

Subpart KKKK: Stationary Combustion Turbines

The proposed Deepwater Port Facility will not operate a stationary combustion turbine. Therefore, this rule does not apply.

NESHAP – 40 CFR Part 61

Subpart A: General Provisions

Any emission source subject to a specific NESHAP is also subject to applicable general provisions in this subpart. The proposed Deepwater Port Facility will have emissions of benzene as a result of handling and storing crude oil. Benzene is a listed applicable substance in 40 CFR 61.01(a). Therefore, a review of potentially applicable NESHAP rules was performed for the facility's emission sources.

Subpart V: Equipment Leaks of VHAP Service

The crude to be handled and loaded at the proposed Deepwater Port Facility will contain benzene at less than 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate "In VHAP Service", as defined in 40 CFR 61.241. Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply as well.

NESHAP for Source Categories ("MACT") – 40 CFR Part 63

Subpart A: General Provisions

This subpart applies to any facility that is subject to an individual subpart under 40 CFR 63. Because the diesel (compression ignition) engines at the proposed Deepwater Port Facility will be subject to Subpart ZZZZ, the facility will comply with applicable requirements in Subpart A.

Subpart H: Equipment Leaks of Organic HAPs

The provisions of this subpart apply to pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port Facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP). Therefore, this subpart does not apply.

Subpart Y: National Emission Standards for Marine Tank Vessel Loading Operations

Texas GulfLink's proposed DWP is expected to emit greater than 10 tons per year (tpy) of a single hazardous air pollutant (HAP) and greater than 25 tpy of an aggregate of all speciated HAPs (see Table 3-2). Therefore, the facility is considered a major source of HAPs. For some marine tank vessel loading operations, 40 CFR Part 63, Subpart Y (referred to generally as "Subpart Y")

provides the regulatory framework for setting HAP emissions limits. However, for the reasons stated below, Subpart Y does not apply to Texas GulfLink's proposed DWP. Rather, Texas GulfLink asserts that the HAP emissions from its proposed facility are more appropriately considered through a case-by-case MACT analysis (40 CFR Part 63, Subpart B), rather than under Subpart Y.

a. Hazardous Air Pollution Regulation

The Clean Air Act (CAA) section 112 authorizes the EPA to regulate the emission of HAPs. CAA section 112(d) requires EPA to promulgate regulations establishing emission standards for each category or subcategory of major sources listed by the EPA under Section 112(c) of the CAA (Listed Sources). The emission standards for Listed Sources are referred to as National Emission Standards for Hazardous Air Pollutants (NESHAP).

The NESHAP establish Maximum Achievable Control Technology (MACT) standards for setting emissions limits for new and existing Listed Sources. In those instances where EPA has not established a MACT standard applicable to a major source of HAPs (i.e. for sources that are not a Listed Source), CAA section 112(g) applies. Under section 112(g), the MACT emission limitation is developed on a "case-by-case" basis.

In 1995, EPA promulgated a specific MACT standard for HAP emissions from the "marine tank vessel loading operations" source category – a Listed Source. That standard is found in Subpart Y. Under Subpart Y, new, major "offshore loading terminals" are required to reduce HAP emissions from marine tank loading operations by 95 weight-percent. HAP emissions can be controlled using one of two primary methods: vapor recovery or vapor combustion (VR/VC). See 59 Federal Register 25004, 25007 (May 13, 1994).

However, VR/VC is an onshore or near-shore control technology that has never been achieved in practice at a DWP. VR/VC creates significant and unique human and environmental safety concerns at DWPs, especially those like Texas GulfLink that are located in unprotected waters and plan to use a manned platform for port security, surge protection and emergency/environmental response. Texas GulfLink proposes to control HAP emissions (i.e., volatile organic compounds, or "VOCs") during crude oil loading operations by using submerged fill loading under a VOC Management Plan adopted by the Marine Environment Protection Committee (MEPC), in MEPC.185(59) and MEPC.1/Circ. 680. Unlike VR/VC, VOC control plans represent emissions control strategies actually demonstrated and achieved in practice at DWPs.

Furthermore, and importantly, the proposed Texas GulfLink project does not meet the definition of an "offshore loading terminal" as that term is defined in Subpart Y. Therefore, Subpart Y is not applicable to Texas GulfLink's proposed project.

b. Texas GulfLink's Proposed DWP Does Not Meet the Definition of "Offshore Loading Terminal"

EPA's Subpart Y regulations define an "offshore loading terminal" in 40 CFR §63.561 as follows:

*Offshore loading terminal means a location that has at least one loading berth that is 0.81 km (0.5 miles) or more from the shore that is used for **mooring** a marine tank vessel and loading liquids from shore. (emphasis added)*

A critical part of the definition of an offshore loading terminal is the need for at least one "loading berth." The term "loading berth" is defined as follows:

*Loading berth means the loading arms, pumps, meters, shutoff valves, relief valves, and other piping and **valves necessary to fill marine tank vessels**. The loading berth includes those items **necessary for an offshore loading terminal**. (emphasis added).*

Finally, a "terminal" is defined as "all loading berths at any land or sea based structure(s) that loads liquids in bulk onto marine tank vessels." Based on these definitions, an *offshore* loading terminal subject to Subpart Y requires at least one loading berth at a sea based structure. The Texas GulfLink project will not be an offshore loading terminal as contemplated by these definitions.

The Texas GulfLink DWP will load tankers using an SPM buoy system. The tankers will be physically moored to the floating SPMs, not any platform. Once a ship is moored to the SPM, the oil is loaded directly into the crude oil tankers using 1,100-foot flexible hoses. The equipment "necessary" for Texas GulfLink to "fill marine tank vessels" or to "load liquids in bulk" include the pumps (located and controlled onshore), the subsea pipeline, the PLEMs, the SPMs, and the 1,100-foot flexible hoses connecting the SPMs to the tankers. There are no "loading arms" or "pumps" at the SPM, only the lengthy floating flexible cargo hoses. The SPM-system proposed by Texas GulfLink does not fall within the meaning of a loading berth.

Although it is part of the overall design of the Texas GulfLink project, the offshore fixed platform is not necessary for loading operations and not a loading berth. The flow of oil from shore to the tankers is driven by nine (9) mainline crude pumps and three (3) booster pumps located onshore and fully controlled from an onshore control room—not the platform. Likewise, system shut-off valves are located onshore downstream of the main pumps. There are no "loading arms" or "pumps" on the platform itself. In fact, no equipment critical to loading is located solely on the platform. The platform itself will be 1.25 nautical miles (1.43 miles) away from the 2 SPM buoys where the tankers are moored.

While all DWP applicants propose to load tankers in the same manner – via an SPM system, some DWP applicants, like Texas GulfLink, recognize the benefits of incorporating a manned platform (at significant additional cost) into their projects. The platform provides support in the event of

a discharge, accident, pipeline surge, or security event. The platform will not be necessary to the loading operation conducted through the SPM, as evidenced by the DWP applicants that propose an SPM-only DWP.

c. Case-by-Case MACT Analysis Under CAA 112(g)

Because the platform does not constitute a “loading berth” and because the DWP project proposed by Texas GulfLink does not fit within the meaning of an “offshore loading terminal” as those terms are defined in Subpart Y, a case-by-case MACT analysis under CAA 112(g) is the technically and legally more appropriate approach for establishing an emissions limit. Further, under a case-by-case MACT analysis, the Texas GulfLink project can be evaluated based on the unique aspects of its proposed design while taking into account the safety and operational issues.

Subpart VV: Oil-Water Separators and Organic-Water Separators

The provisions of this subpart apply to the control of air emissions from oil-water separators and organic-water separators for which another subpart of 40 CFR 60, 61, or 63 references the use of this subpart for such air emission control. No Part 60, 61, or 63 subpart that applies to the proposed Deepwater Port Facility references Subpart VV. In addition, the facility will not operate an affected source under Subpart VV. Therefore, this rule does not apply.

Subpart YYYY: Stationary Combustion Turbines

The proposed Deepwater Port Facility will not operate a stationary combustion turbine. Therefore, this rule does not apply.

Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines (RICE)

The proposed Deepwater Port Facility will operate 4 compression ignition (CI) engines driving 2 electric generators (968 hp each), 1 emergency firewater pump (350 hp), and 1 portal crane (425 hp). Per 40 CFR 63.6590(c), an affected source that meets any of the criteria in paragraphs (c)(1) through (7) of the section must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60 (NSPS) Subpart IIII for compression ignition engines, and no further requirements apply under this subpart.

The emergency-use firewater pump engine [EPN (P) FWP-1] meets the applicability criteria of paragraph (c)(6) because it will be a new *emergency* stationary reciprocating internal combustion engine (RICE) with a site rating of less than or equal to 500 brake horsepower (bhp) located at a major source of hazardous air pollutant (HAP) emissions. Therefore, the engine will comply with Subpart ZZZZ by complying with 40 CFR 60 Subpart IIII, and no further requirements under Subpart ZZZZ apply.

Additionally, the portal crane engine [EPN (P) C-1] meets the applicability criteria of paragraph (c)(7) because it will be a new CI stationary RICE with a site rating of less than or equal to 500 bhp located at a major source of HAP emissions. Therefore, this engine will comply with Subpart ZZZZ by complying with 40 CFR 60 Subpart IIII, and no further requirements under Subpart ZZZZ apply.

Finally, the 2 electric generator engines [EPNs (P) G-1 and (P) G-2] do not meet the applicability of any of the (c)(7) paragraphs because each generator engine will have a power rating greater than 500 bhp and located at a major source of HAPs. Therefore, compliance with Subpart ZZZZ cannot be demonstrated solely by compliance with 40 CFR 60 Subpart IIII. These 2 engines will comply with applicable requirements of Subpart ZZZZ with respect to emission and operating limitations, testing, monitoring, recordkeeping, and reporting.

4.2 Texas Air Regulations – 30 TAC

As previously mentioned, for deepwater port license applications, the US EPA administers CAA requirements and reviews air permit applications using the nearest adjacent State's regulations. Because Texas is the nearest adjacent state to the proposed Deepwater Port Facility, the TCEQ rules and regulations would potentially apply to the Deepwater Port Facility. The TCEQ air quality regulations in 30 TAC Chapters 101 through 122 were reviewed for potentially applicable requirements.

Chapter 101: General Air Quality Rules

Chapter 101 covers general rules that may apply to the Deepwater Port Facility. Some items included in Chapter 101 are nuisance rules, inspection fees, emission fees, emission events, scheduled maintenance, and expedited permitting. The proposed Deepwater Port Facility will comply with applicable requirements listed in this chapter.

Chapter 111: Control of Air Pollution from Visible Emissions and Particulate Matter

Chapter 111 establishes standards for visible emissions and opacity from stationary vents, gas flares, ships, and other sources, and for particulate matter (PM) emissions from selected sources, including material handling and construction. In general, the opacity from a new stationary vent or stack must not exceed 20%, averaged over a 6-minute period. The opacity from a ship stack must not exceed 30%, averaged over a 5-minute period, except during reasonable periods of engine startup. Gas flares must not have visible emissions for more than 5 minutes in any consecutive 2-hour period. The Deepwater Port Facility will comply with applicable opacity and PM emission limits specified in this chapter.

Chapter 112: Control of Air Pollution from Sulfur Dioxide

Chapter 112 outlines emission limits as well as monitoring, reporting, recordkeeping requirements, and net ground-level concentration limits for sulfur compounds. The proposed Deepwater Port Facility will demonstrate compliance with the net ground-level concentration of applicable sulfur compounds (e.g. SO₂, H₂S) through air dispersion modeling analysis.

Chapter 113: Standards of Performance for Hazardous Air Pollutants and for Designated Facilities and Pollutants

Chapter 113 incorporates by reference the federal NESHAP for Source Category standards contained in 40 CFR Part 63. The applicability analysis for the federal NESHAP regulations is presented in Section 4.1.

Chapter 115: Control of Air Pollution from Volatile Organic Compounds

Chapter 115 establishes rules for VOC emissions from specific sources, including vent gases, loading, and unloading of VOCs. Chapter 115 applies to emission sources located in designated nonattainment counties, and specific covered attainment counties listed in §115.10. The requirements listed in Chapter 115 do not apply to the proposed Deepwater Port Facility because the facility will not be located in a designated nonattainment area, nor in one of the specifically listed attainment counties.

Chapter 116: Control of Air Pollution by Permits for New Construction or Modification

Through Chapter 116, the TCEQ administers the New Source Review (NSR) air permitting programs in Texas, including NNSR and PSD. However, for sources located on the OCS outside of the state seaward boundary, the US EPA administers the PSD (pre-construction) program, using nearest adjacent state regulations. Therefore, Texas GulfLink is applying to the US EPA (Region 6) for a PSD permit prior to commencing construction.

Chapter 117: Control of Air Pollution from Nitrogen Compounds

Chapter 117 Subchapter B establishes emission limits for nitrogen compounds emitted from major industrial, commercial, and institutional sources located in ozone nonattainment areas. Because the proposed Deepwater Port Facility will not be located in a designated nonattainment area, the requirements of this chapter do not apply.

Chapter 118: Control of Air Pollution Episodes

Chapter 118 establishes requirements for generalized and local air pollution episodes. The requirements listed in Chapter 118 do not apply to the proposed Deepwater Port Facility because the facility's location will not be in any geographical area that might be affected by an air pollution episode.

Chapter 122: Federal Operating Permits Program

The proposed Texas GulfLink Deepwater Port Facility will be a major source of regulated pollutants (i.e., single pollutant with emissions greater than 100 tons per year, see Table 3-1); thus, it will require a federal Title V operating permit. For sources located on the OCS outside of the state seaward boundary, the US EPA administers the Title V permit program, using nearest adjacent state regulations. Therefore, the Deepwater Port Facility is required to submit an initial Title V operating permit application to the US EPA (Region 6) prior to starting operation of the facility. This application is being submitted to meet this requirement.

5.0 FEDERAL BACT SUMMARY

Per the requirements of 40 CFR 71.5(c)(3)(v), a federal Part 71 application must identify and describe air pollution equipment and compliance monitoring devices or activities. The following federal Best Available Control Technology (BACT) summary is provided to meet the requirements of this regulation.

As described more fully in the PSD permit application for the Texas GulfLink Project (submitted under separate cover), the US EPA's "top-down" approach was used to conduct a federal BACT analysis for the offshore Deepwater Port Facility. Under the top-down approach, progressively less stringent control technologies were analyzed until a level of control considered BACT was determined, based on the most effective control option determined to result in acceptable environmental, energy, and economic impacts. The top-down BACT analysis methodology consists of five steps:

1. Identify all "available" control options that might be utilized to reduce emissions of the subject pollutant for the type of source/unit subject to BACT.
2. Eliminate those available options that are technically infeasible to apply to specific emissions unit(s) under consideration.
3. Rank the remaining technically feasible control options by control effectiveness.
4. Evaluate economic, energy and/or environmental impacts of each remaining control option as applied to the subject emissions unit, rejecting those options for which the adverse impacts outweigh the beneficial impacts.
5. Based on the most effective control option not rejected in Step 4, select an emission limit or work practice as BACT, reflecting the level of control continuously achievable with the selected control option.

Table 5-1 provides a summary of the federal BACT selected after performing the top-down analysis described above for potential candidate emissions controls.

Table 5-1: Summary of Proposed Federal BACT

Emissions Unit Category	Pollutant	BACT Selection
Ship Loading	VOC	<ul style="list-style-type: none">• Submerged Loading, and• Implementation of ship-specific VOC Management Plans in compliance with the requirements of MEPC.185(59).
Platform and SPM Buoy Fugitives	VOC	<ul style="list-style-type: none">• Compliance with applicable regulations, and• Good engineering design and work practices.

Emissions Unit Category	Pollutant	BACT Selection
Diesel Tanks	VOC	<ul style="list-style-type: none"> • Fixed roof tanks, • Tanks painted white, • Equipped with submerged fill pipes, and • Maintain compliance with applicable regulatory work practices.
Crude Surge Tank	VOC	<ul style="list-style-type: none"> • Fixed roof tank, • Tank painted white, • Equipped with submerged fill pipe, and • Maintain compliance with applicable regulatory work practices.
Diesel Engines (Generators, Firewater Pumps, Cranes)	VOC	<ul style="list-style-type: none"> • Compliance with applicable requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ, and • Good combustion practices.
	NOx	<ul style="list-style-type: none"> • Compliance with applicable requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ, and • Good combustion practices.

6.0 PART 71 FORMS

Appendix E of this application contains the US EPA's Part 71 forms. These forms provide general information on the proposed Deepwater Port Facility of the Texas GulfLink Project. In addition, information is provided on the specific combustion pollutant and VOC-emitting process units and estimated maximum emission rates. Finally, a certification of compliance to be signed by a responsible official is included certifying the truth, accuracy, and completeness of the Part 71 permit application.

7.0 CERTIFICATION OF COMPLIANCE

Per 40 CFR 71.5(c)(9), a federal Title V permit application must contain a certification of compliance by a responsible official of truth, accuracy, and completeness, consistent with the requirements of §71.5(d). The Part 71 forms included in Appendix E of this application contains the applicable certification of compliance.

APPENDICES

Appendix A
Company Identifying Information



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN605724657		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Texas GulfLink, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
803289302	32070364859	83-4468810	
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input type="checkbox"/> Voluntary Cleanup Applicant		<input type="checkbox"/> Other:	
15. Mailing Address:			
8333 Douglas Ave., Ste. 400			
City	Dallas	State	TX
ZIP	77525	ZIP + 4	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code	
(214) 712-2140			
20. Fax Number (if applicable)			
() -			

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Deepwater Port	

23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County	Brazoria							
Enter Physical Location Description if no street address is provided.								
25. Description to Physical Location:	Approximately 32.5 nautical miles off the coast of Brazoria County, southwest of Freeport, TX.							
26. Nearest City					State		Nearest ZIP Code	
Freeport					TX		77541	
27. Latitude (N) In Decimal:		28.552494		28. Longitude (W) In Decimal:		-95.028431		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
28	33	08.98	95	01	42.35			
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
4612				486110				
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Deepwater Port								
34. Mailing Address:								
		City		State		ZIP		ZIP + 4
35. E-Mail Address:								
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)		
() -						() -		

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input checked="" type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

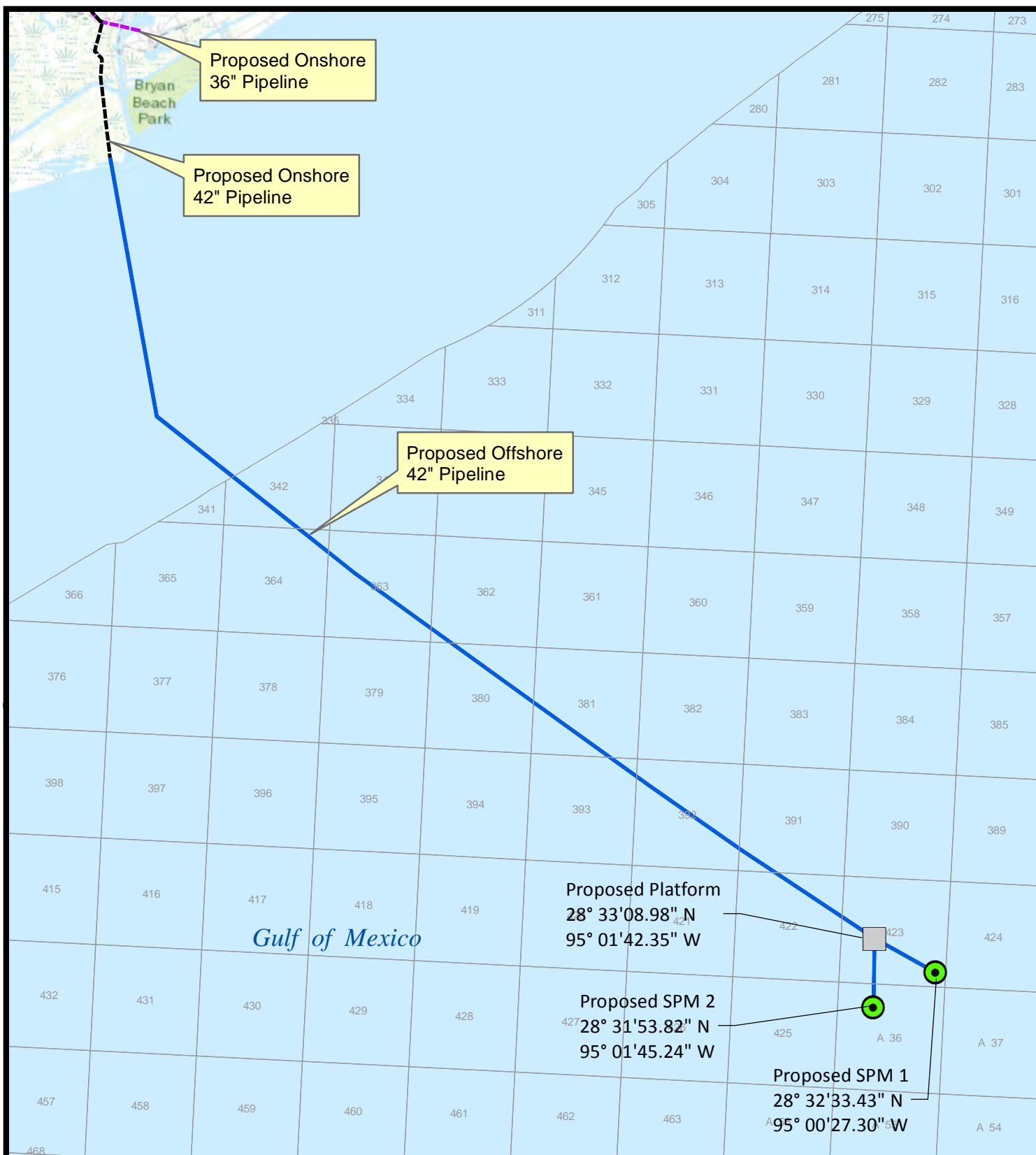
40. Name:	James Smith	41. Title:	Air Quality Program Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 885-5458		(281) 397-6637	james.smith@c-ka.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Texas GulfLink, LLC	Job Title:	President and CEO
Name(In Print) :	Jeff Ballard	Phone:	(214) 712-2140
Signature:		Date:	

Appendix B
Application Figures (Area Map and PFD)



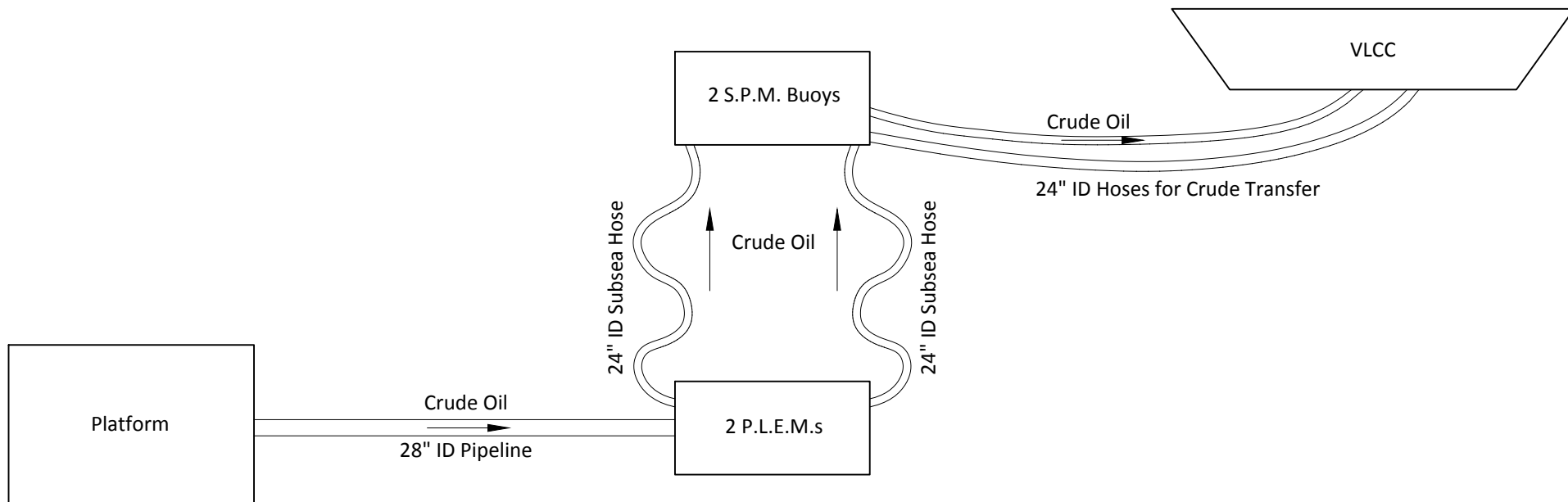
Texas GulfLink, LLC
Dallas, Texas

Texas GulfLink

Offshore Location Map



Drawn: CAL	Checked: JLS
Date: 5/7/2019	Approved: JLS
Dwg. No.: A17073-60	Figure 1



Texas GulfLink, LLC
Dallas, Texas

Texas GulfLink

Simplified Process Flow Diagram



NOT TO SCALE

Drawn: CPL	Checked: JLS
Date: 05/09/19	Approved: JLS
Dwg. No.: A17073-62	Figure 2

Appendix C
Detailed Emission Rate Calculations

EPN	Source	CO ₂ e		PM ₁₀		PM _{2.5}		SO ₂		NOx		CO		Total VOC		H ₂ S		Acetaldehyde		Benzene		Isopropylbenzene		Ethylbenzene		Formaldehyde		Hexane (-n)		2,2,4-Trimethylpentane		Toluene		Xylene (-m)	
		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)		
(P) M-1	Marine Loading													4,709.72	9,679.15	0.12	0.05			20.78	42.70	0.16	0.33	1.39	2.86			107.53	220.99	1.79	3.67	10.17	20.90	4.08	8.38
(P) G-1	Generator 1	4,856	4,406	0.32	1.39	0.32	1.39	0.01	0.05	9.92	43.45	5.57	24.40	0.27	1.16			0.0002	0.001	0.01	0.02					0.001	0.002					0.002	0.01	0.002	0.01
(P) G-2	Generator 2	4,856	4,406	0.32	1.39	0.32	1.39	0.01	0.05	9.92	43.45	5.57	24.40	0.27	1.16			0.0002	0.001	0.01	0.02					0.001	0.002					0.002	0.01	0.002	0.01
(P) C-1	Crane 1	485	2,132	0.14	0.61	0.14	0.61	0.01	0.02	2.59	11.32	2.45	10.71	0.21	0.92					0.01	0.02					0.004	0.02								
(P) DT-1	Day Tank 1													0.001	0.01																				
(P) BT-1	Belly Tank 1													0.0002	0.001																				
(P) BT-2	Belly Tank 2													0.0002	0.001																				
(P) BT-3	Belly Tank 3													0.0002	0.001																				
(P) BT-4	Belly Tank 4													0.00002	0.0001																				
(P) T-1	Surge Tank													0.40	1.74					0.002	0.01			0.0001	0.001			0.01	0.04			0.001	0.004	0.0003	0.002
(P) FWP-1	MSS - Firewater Pump	5	20	0.12	0.01	0.12	0.01			2.12	0.11	2.01	0.10	0.18	0.01																				
(P) P-1	MSS - Pigging Operations													83.76	0.50					0.37	0.002							1.91	0.01			0.18	0.001		
(P) F-1	Platform Fugitive Emissions													0.03	0.12						0.00071						0.0005	0.002				0.00118	0.0004	0.002	
(P) F-2	SPM System Fugitives													0.10	0.44																				
(P) S-1	Sampling Activities													0.10	0.05																				
(P) PM-1	MSS - Pump Maintenance													4.00	0.002																				
(P) MSS-1	MSS - Abrasive Blasting / Painting			0.01	0.06	0.002	0.01							0.06	0.26																				
TOTAL EMISSIONS (TPY)		10,201	10,965	0.91	3.47	0.89	3.42	0.03	0.13	24.54	98.33	15.60	59.60	4,799.10	9,685.53	0.12	0.05	0.0003	0.001	21.16	42.75	0.16	0.33	1.39	2.86	0.005	0.02	109.45	221.04	1.79	3.67	10.36	20.92	4.08	8.39

Texas GulfLink, LLC
Offshore Platform
Marine Loading

EPN	Description
(P) M-1	Marine Loading

AP-42, Chapter 5, Section 5.2

Transportation and Marketing of Petroleum Liquids

Equation 2 was developed specifically for estimating emissions from the loading of crude oil into ships and ocean barges

$C_L = C_A + C_G$

C_L = total loading loss (lb/10³ gal of crude oil loaded)

C_A = arrival emission factor (lb/10³ gal loaded)

C_A = 0.86 Taken from Table 5.2-3, based on "Uncleaned" and "Volatile", assumes no ballasting.
Vapor pressure is > 1.5 psia.

C_G = generated emission factor (lb/10³ gal loaded)

Equation 3: $C_G = 1.84 \cdot (0.44P - 0.42) \cdot ((MG)/T)$

P = 8.98 psia Average true vapor pressure for Crude Oil estimated using TANKS 4.09d and information provided by Abadie-Williams LLC
P = 10.00 psia Maximum true vapor pressure for Crude Oil estimated using AP-42, Figure 7.1-13 and information provided by Abadie-Williams LLC
M = 50 lb/lb-mol VMW of loaded crude
G = 1.02 dimensionless AP-42
T = 529.67 deg R Average temperature of loaded crude provided by Abadie-Williams LLC
T = 539.67 deg R Maximum temperature of loaded crude provided by Abadie-Williams LLC
 C_G = 0.63 **ANNUAL EMISSION FACTOR**
 C_G = 0.69 **MAXIMUM EMISSION FACTOR**

Based on 80 deg F and RVP10.

ANNUAL

C_L = 1.49 lb TOC/10³ gal loaded 1.26 lb VOC/10³ gal loaded

MAXIMUM

C_L = 1.55 lb TOC/10³ gal loaded 1.32 lb VOC/10³ gal loaded

Per Chapter 5, emission factors derived from Equation 3 and Table 5.2-3 represent TOC. When specific vapor composition information is not available, the VOC emission factor can be estimated by taking 85% of the TOC factor.

Pollutant	Maximum Emission Factor (lb/10 ³ gal)	Annual Emission Factor (lb/10 ³ gal)	Maximum Crude Loading Rate (bbl/hr)	Annual Crude Loaded (bbl/yr)	MW (lb/lbmol)	Average Concentration of H ₂ S in Crude (ppmv)	Maximum Concentration of H ₂ S in Crude (ppmv)	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
VOC	1.32	1.26	85,000	365,000,000	-	-	-	2,209.85	4,709.72	9,679.15
Benzene	-	-	-	-	-	-	-	9.75	20.78	42.70
Ethylbenzene	-	-	-	-	-	-	-	0.65	1.39	2.86
n-Hexane	-	-	-	-	-	-	-	50.45	107.53	220.99
Isooctane	-	-	-	-	-	-	-	0.84	1.79	3.67
Isopropyl benzene	-	-	-	-	-	-	-	0.07	0.16	0.33
Toluene	-	-	-	-	-	-	-	4.77	10.17	20.90
Xylene	-	-	-	-	-	-	-	1.91	4.08	8.38
H ₂ S	-	-	-	-	34.1	5	25	0.01	0.12	0.05

Annual Crude Loading Rate provided by Abadie-Williams LLC.

Maximum Crude Loading Rate provided by Abadie-Williams LLC.

Maximum and Annual Concentration of H₂S in Crude is an assumption.

From TANKS 4.09d:

NAME	V_WT_FRACT
Benzene	0.0044
Ethylbenzene	0.0003
Hexane (-n)	0.0228
Isooctane	0.0004
Isopropyl benzene	0.0000
Toluene	0.0022
Xylene (-m)	0.0009
Unidentified Components	0.9637
Cyclohexane	0.0053
1,2,4-Trimethylbenzene	0.0000

Texas GulfLink, LLC
Offshore Platform
Generators

Two (2) 650 KW generators are used to supply electricity to the platform.

EPN	Description
(P) G-1	Generator 1
(P) G-2	Generator 2

Given:

Power Output of Each Generator	650 KW ⁽¹⁾
Power Output of Each Engine	968 Hp
Power Output of Each Engine	722 KW ⁽²⁾
Operation Time	8,760 hrs
Firing Rate:	6.78 MMBtu/hr ⁽³⁾

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation for One Engine:

Pollutant	Emission Factor ⁽⁴⁾ [g/kW-hr]	Emission Factor ⁽²⁾ [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM _{2.5}	0.2	0.15	0.0003	NSPS 4I	0.32	0.32	1.39
PM ₁₀	0.2	0.15	0.0003	NSPS 4I	0.32	0.32	1.39
SO ₂	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.01	0.01	0.05
CO	3.5	2.61	0.01	NSPS 4I	5.57	5.57	24.40
NMHC + NO _x	6.40	-	-	NSPS 4I	-	-	-
NO _x	6.23	4.65	0.01	NSPS 4I	9.92	9.92	43.45
Total VOC	0.17	0.12	0.0003	NSPS 4I	0.27	0.27	1.16

Greenhouse Gases Emission Calculation for One Engine:

Pollutant	Emission Factor ⁽⁵⁾ (kg/MMBtu)	Global Warming Potentials ⁽⁶⁾	Emissions			
			Average ⁽⁷⁾ (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO ₂ e ⁽⁸⁾ (tonnes/yr)
CO ₂	73.96	1	1,105	1,105	4,839	4,391
CH ₄	3.00E-03	25	0.04	0.04	5	4
N ₂ O	6.00E-04	298	0.01	0.01	12	11
CO ₂ e	--	--	1,105	1,105	4,856	4,406

Toxic Air Pollutant Emission Calculation for One Engine:

Pollutant	Emission Factor [lb/MMBtu]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	0.0000252	AP-42, Ch. 3.4	0.0002	0.0002	0.001
Benzene	0.000776	AP-42, Ch. 3.4	0.005	0.005	0.02
Formaldehyde	0.0000789	AP-42, Ch. 3.4	0.001	0.001	0.002
Toluene	0.000281	AP-42, Ch. 3.4	0.002	0.002	0.01
Xylene	0.000193	AP-42, Ch. 3.4	0.001	0.001	0.01

Notes:

(1) Provided by Abadie-Williams LLC

(2) 1.341 hp/Kw

(3) Converted using 7,000 Btu/hp-hr from AP-42, Chapter 3.

(4) NMHC + NO_x, CO, and PM taken from 40 CFR 89.112(a) Table 1; PM factor used for PM₁₀ and PM_{2.5}; NMHC + NO_x factor used for VOC and NO_x by assuming 97% NO_x and 3% VOC, based on the ratios of NO_x and VOC AP-42 emission factors in Chapter 3.4.

(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98. Distillate Fuel Oil No. 2 for CO₂ emission factor, Petroleum (all fuel type in Table C-1) for CH₄ and N₂O emission factors.

(6) Global warming potentials for converting to CO₂e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

(7) Emissions converted from kg to lbs using 2.20462 lb/kg.

(8) CO₂e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

Texas GulfLink, LLC
Offshore Platform
Portal Crane

One (1) 425 Hp portal crane is used on the platform.

EPN	Description
(P) C-1	Crane 1

Given:

Power Output of Each Engine	316.93 KW ⁽¹⁾
Power Output of Each Engine	425.00 Hp ⁽²⁾
Operation Time	8,760 hrs
Firing Rate:	2.98 MMBtu/hr ⁽³⁾

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation for One Engine:

Pollutant	Emission Factor ⁽⁴⁾ [g/kW-hr]	Emission Factor ⁽²⁾ [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM _{2.5}	0.2	0.15	0.0003	NSPS 4I	0.14	0.14	0.61
PM ₁₀	0.2	0.15	0.0003	NSPS 4I	0.14	0.14	0.61
SO ₂	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.01	0.01	0.02
CO	3.5	2.61	0.01	NSPS 4I	2.45	2.45	10.71
NMHC + NOx	4.00	-	-	NSPS 4I	-	-	-
NO _x	3.70	2.76	0.01	NSPS 4I	2.59	2.59	11.32
Total VOC	0.30	0.22	0.0005	NSPS 4I	0.21	0.21	0.92

Greenhouse Gases Emission Calculation for One Engine:

Pollutant	Emission Factor ⁽⁵⁾ (kg/MMBtu)	Global Warming Potentials ⁽⁶⁾	Emissions			
			Average ⁽⁷⁾ (lb/hr)	Maximum (lb/hr)	Annual (tpy)	CO ₂ e ⁽⁸⁾ (tonnes/yr)
CO ₂	73.96	1	485.08	485.08	2124.67	1928.01
CH ₄	3.00E-03	25	0.02	0.02	2.15	1.96
N ₂ O	6.00E-04	298	0.004	0.004	5.14	4.66
CO ₂ e	--	--	485.11	485.11	2131.96	1934.63

Toxic Air Pollutant Emission Calculation for One Engine:

Pollutant	Emission Factor [lb/MMBtu]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Formaldehyde	0.00118	AP-42, Ch. 3.3	0.004	0.004	0.02

Notes:

(1) Calculated using 1.341 hp/kW.

(2) Provided by Abadie-Williams LLC

(3) Converted using 7,000 Btu/hp-hr from AP-42, Chapter 3.

(4) NMHC + NOx, CO, and PM taken from 40 CFR 89.112(a) Table 1; PM factor used for PM₁₀ and PM_{2.5}; NMHC + NOx factor used for VOC and NOx by assuming 92% NOx and 8% VOC, based on the ratios of NOx and VOC AP-42 emission factors in Chapter 3.4. Assumes Tier III.

(5) All emission factors taken from Tables C-1 and C-2 to Subpart C of Part 98. Distillate Fuel Oil No. 2 for CO₂ emission factor, Petroleum (all fuel type in Table C-1) for CH₄ and N₂O emission factors.

(6) Global warming potentials for converting to CO₂e taken from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

(7) Emissions converted from kg to lbs using 2.20462 lb/kg.

(8) CO₂e tonnes calculated using 2,204 lbs/tonne and global warming potentials from Table A-1 to Subpart A of Part 98 - Global Warming Potentials.

Texas GulfLink, LLC
Offshore Platform
Diesel Fuel Tank for Engines

Tank Data:

EPN	Description	Tank Type	Stored Product	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) DT-1	Day Tank 1	Vertical Fixed Roof	Diesel	8,760	20,000	300,000

Calculation Methodology:

Note: Emissions are based on AP-42, Chapter 7, November 2006.

Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Calculation for One Tank:

Pollutant	VOC Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	11.04	0.001	0.001	0.01
Benzene	0.02	2.E-06	2.E-06	1.E-05
Ethylbenzene	0.04	4.E-06	4.E-06	2.E-05
n-Hexane	0.00	5.E-07	5.E-07	2.E-06
Toluene	0.25	0.00003	0.00003	0.0001
Xylenes	0.66	0.0001	0.0001	0.0003

Texas GulfLink, LLC
Offshore Platform
Diesel Fuel Tanks for Engines (Generators, Crane, Firewater Pump)

Tank Data:

EPN	Description	Tank Type	Stored Product	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) BT-1	Belly Tank 1	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-2	Belly Tank 2	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-3	Belly Tank 3	Horizontal Fixed Roof	Diesel	8,760	1,000	99,667
(P) BT-4	Belly Tank 4	Horizontal Fixed Roof	Diesel	8,760	1,000	1,000

Calculation Methodology:

Note: Emissions are based on AP-42, Chapter 7, November 2006.

Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Summary for one Belly Tank (BT-1, BT-2, BT-3):

Pollutant	Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	1.50	0.0002	0.0002	0.001
Benzene	0.003	3.E-07	3.E-07	1.E-06
Ethylbenzene	0.005	5.E-07	5.E-07	2.E-06
n-Hexane	0.001	7.E-08	7.E-08	3.E-07
Toluene	0.03	4.E-06	4.E-06	2.E-05
Xylenes	0.09	1.E-05	1.E-05	4.E-05

Emission Summary for one Belly Tank (BT-4):

Pollutant	Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	0.16	0.00002	0.00002	0.0001
Benzene	0.0003	4.E-08	4.E-08	2.E-07
Ethylbenzene	0.001	6.E-08	6.E-08	3.E-07
n-Hexane	0.0001	7.E-09	7.E-09	3.E-08
Toluene	0.004	4.E-07	4.E-07	2.E-06
Xylenes	0.01	1.E-06	1.E-06	5.E-06

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	(P) BT-1, (P) BT-2, (P) BT-3
City:	Freeport
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Horizontal Tank
Description:	Belly Tank for Generators and Crane, emissions represent one tank.

Tank Dimensions

Shell Length (ft):	10.00
Diameter (ft):	4.00
Volume (gallons):	1,000.00
Turnovers:	99.67
Net Throughput(gal/yr):	99,666.67
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d **Emissions Report - Detail Format** **Liquid Contents of Storage Tank**

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank
Freeport, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	71.54	68.18	74.90	69.66	0.0095	0.0085	0.0105	130.0000			188.00	Option 1: VP70 = .009 VP80 = .012
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0100	0.0490	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4684	0.4239	0.5168	92.1300	0.0003	0.0229	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0081	0.0074	0.0079	134.5138	0.9866	0.8632	189.60	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d

Emissions Report - Detail Format

Detail Calculations (AP-42)

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank Freeport, Texas

Annual Emission Calculations	
Standing Losses (lb):	0.1344
Vapor Space Volume (cu ft):	80.0406
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0213
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	80.0406
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.1383
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	10.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0213
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.0019
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0085
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9990
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0095
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	
Working Losses (lb):	1.3650
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Annual Net Throughput (gal/yr.):	99,666.6667
Annual Turnovers:	99.6667
Turnover Factor:	0.4677

Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.4995

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) BT-1, (P) BT-2, (P) BT-3 - Horizontal Tank
Freeport, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.03	0.00	0.03
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.08	0.01	0.09
1,2,4-Trimethylbenzene	0.07	0.01	0.07
Unidentified Components	1.18	0.12	1.29
Distillate fuel oil no. 2	1.37	0.13	1.50

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	(P) BT-4
City:	Freeport
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Horizontal Tank
Description:	Belly Tank for Firewater Pump

Tank Dimensions

Shell Length (ft):	10.00
Diameter (ft):	4.00
Volume (gallons):	1,000.00
Turnovers:	1.00
Net Throughput(gal/yr):	1,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d **Emissions Report - Detail Format** **Liquid Contents of Storage Tank**

(P) BT-4 - Horizontal Tank **Freeport, Texas**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	71.54	68.18	74.90	69.66	0.0095	0.0085	0.0105	130.0000			188.00	Option 1: VP70 = .009 VP80 = .012
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0100	0.0490	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4684	0.4239	0.5168	92.1300	0.0003	0.0229	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0081	0.0074	0.0079	134.5138	0.9866	0.8632	189.60	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d

Emissions Report - Detail Format

Detail Calculations (AP-42)

(P) BT-4 - Horizontal Tank Freeport, Texas

Annual Emission Calculations	
Standing Losses (lb):	0.1344
Vapor Space Volume (cu ft):	80.0406
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0213
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	80.0406
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.1383
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	10.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R	
(psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0213
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.0019
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0085
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9990
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0095
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	
Working Losses (lb):	0.0293
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0095
Annual Net Throughput (gal/yr.):	1,000.0000
Annual Turnovers:	1.0000
Turnover Factor:	1.0000

Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	0.1637

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) BT-4 - Horizontal Tank
Freeport, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.03	0.13	0.16
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.01	0.01
1,2,4-Trimethylbenzene	0.00	0.01	0.01
Unidentified Components	0.03	0.12	0.14

Texas GulfLink, LLC
Offshore Platform
Surge Tank

Tank Data:

EPN	Description	Tank Type	Stored Product	MW of Crude (lb/lbmol)	Average TVP of Crude (psia)	Annual Operating Hours	Volume (gal)	Annual Throughput (gal/yr)
(P) T-1	Surge Tank	Fixed Roof	Crude oil (RVP 10)	50	8.98	8,760	84,000	84,000

Volume and throughput provided by Abadie-Williams LLC.

Calculation Methodology:

Note: Emissions are based on AP-42, Chapter 7, November 2006.

Average Hourly Rate [lb/hr] = TANKS Emission Report (lb/yr) / 8760 hrs/yr

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = TANKS Emission Report (lb/yr) / 2000 lb/ton

Emission Calculation for One Tank:

Pollutant	VOC Emissions [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	3,489.80	0.40	0.40	1.74
2,2,4-Trimethylpentane (isooctane)	0.00	0E+00	0E+00	0E+00
Benzene	15.39	0.002	0.002	0.01
Ethylbenzene	1.03	0.0001	0.0001	0.001
Hexane (-n)	79.68	0.009	0.009	0.04
Isopropyl benzene	0.12	0.00001	0.00001	0.0001
Toluene	7.54	0.001	0.001	0.004
Xylene (-m)	3.02	0.0003	0.0003	0.002

Hydrogen Sulfide Emissions:

Molecular Weight of H₂S (lb/lbmol): 34.1

Average Concentration of H₂S in Crude (ppmv): 5

Average Concentration of H₂S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	2.E-06	2.E-06	1.E-05

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	(P) T-1 Fixed
City:	Galveston
State:	Texas
Company:	Sentinel Midstream
Type of Tank:	Vertical Fixed Roof Tank
Description:	Surge Tank

Tank Dimensions

Shell Height (ft):	40.00
Diameter (ft):	19.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	20.00
Volume (gallons):	84,000.00
Turnovers:	1.00
Net Throughput(gal/yr):	84,000.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft)	0.00
Slope (ft/ft) (Cone Roof)	0.06

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meterological Data used in Emissions Calculations: Galveston, Texas (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d

Emissions Report - Detail Format

Liquid Contents of Storage Tank

(P) T-1 Fixed - Vertical Fixed Roof Tank Galveston, Texas

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Crude oil (RVP 10)	All	71.54	68.18	74.90	69.66	8.9800	8.5126	9.4668	50.0000			207.00	Option 4: RVP=10
1,2,4-Trimethylbenzene						0.0320	0.0282	0.0363	120.1900	0.0033	0.0000	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5948	1.4590	1.7409	78.1100	0.0060	0.0044	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.6424	1.5056	1.7893	84.1600	0.0070	0.0053	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1604	0.1435	0.1790	106.1700	0.0040	0.0003	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.5633	2.3578	2.7832	86.1700	0.0193	0.0228	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isooctane									114.2200	0.0010	0.0000	114.22	
Isopropyl benzene						0.0732	0.0650	0.0824	120.2000	0.0010	0.0000	120.20	Option 2: A=6.93666, B=1460.793, C=207.78
Toluene						0.4684	0.4239	0.5168	92.1300	0.0100	0.0022	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						10.2985	10.2485	10.2788	49.2353	0.9344	0.9641	226.57	
Xylene (-m)						0.1341	0.1198	0.1498	106.1700	0.0140	0.0009	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d

Emissions Report - Detail Format

Detail Calculations (AP-42)

(P) T-1 Fixed - Vertical Fixed Roof Tank Galveston, Texas

Annual Emission Calculations	
Standing Losses (lb):	2,816.2932
Vapor Space Volume (cu ft):	5,726.6898
Vapor Density (lb/cu ft):	0.0788
Vapor Space Expansion Factor:	0.1815
Vented Vapor Saturation Factor:	0.0942
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	5,726.6898
Tank Diameter (ft):	19.0000
Vapor Space Outage (ft):	20.1979
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	20.0000
Roof Outage (ft):	0.1979
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1979
Roof Height (ft):	0.0000
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	9.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0788
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Daily Avg. Liquid Surface Temp. (deg. R):	531.2087
Daily Average Ambient Temp. (deg. F):	69.6417
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	529.3317
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,404.1667
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.1815
Daily Vapor Temperature Range (deg. R):	13.4398
Daily Vapor Pressure Range (psia):	0.9542
Breather Vent Press. Setting Range (psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	8.5126
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	9.4668
Daily Avg. Liquid Surface Temp. (deg R):	531.2087
Daily Min. Liquid Surface Temp. (deg R):	527.8487
Daily Max. Liquid Surface Temp. (deg R):	534.5686
Daily Ambient Temp. Range (deg. R):	9.3833
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.0942
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.9800
Vapor Space Outage (ft):	20.1979

Working Losses (lb):	673.5023
Vapor Molecular Weight (lb/lb-mole):	50.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	8.9800
Annual Net Throughput (gal/yr.):	84,000.0000
Annual Turnovers:	1.0000
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	84,000.0000
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	19.0000
Working Loss Product Factor:	0.7500
 Total Losses (lb):	 3,489.7956

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

(P) T-1 Fixed - Vertical Fixed Roof Tank
Galveston, Texas

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Crude oil (RVP 10)	673.50	2,816.29	3,489.80
Hexane (-n)	15.38	64.30	79.68
Benzene	2.97	12.42	15.39
Isooctane	0.00	0.00	0.00
Toluene	1.45	6.08	7.54
Ethylbenzene	0.20	0.83	1.03
Xylene (-m)	0.58	2.44	3.02
Isopropyl benzene	0.02	0.10	0.12
1,2,4-Trimethylbenzene	0.03	0.14	0.17
Cyclohexane	3.57	14.93	18.50
Unidentified Components	649.29	2,715.06	3,364.35

Texas GulfLink, LLC
Offshore Platform
Firewater Pump

Engine Data

EPN	Description	Fuel Type	Brake Hp	Annual Operating Hours	Specific Fuel Consumption (Btu/hp-hr) ^a	Heat Input (MMBtu/hr) ^b	Annual Heat Rate (MMBtu/yr) ^c
(P) FWP-1	MSS - Firewater Pump	Diesel	350	100	7,000	2.45	245

^a Given that specific data is unavailable for this engine, this calculation uses the average brake-specific fuel consumption from AP-42 Table 3.3-1, Footnote a.

^b calculated; (Btu/hp-hr * hp) / 1,000,000

^c calculated; MMBtu/hr * hr/yr

Calculation Methodology:

Average Hourly Rate [lb/hr] = Annual Emission Rate [tpy] x Conversion Factor [2000 lbs/ton] / Operating Hours [hrs/yr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Power Output [hp] x Operating Hours x Emission Factor [lb/hp-hr] / Conversion Factor [2000 lbs/1 ton]

Criteria Emission Calculation:

Pollutant	Emission Factor ^d [g/kW-hr]	Emission Factor ^e [g/hp-hr]	Emission Factor [lb/hp-hr]	Emission Factor Source	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Firewater Pump Engine - (P) FWP-1							
PM _{2.5}	0.2	0.15	0.0003	NSPS 4I	0.12	0.12	0.01
PM ₁₀	0.2	0.15	0.0003	NSPS 4I	0.12	0.12	0.01
SO ₂	-	-	0.00001	AP-42, Ch. 3.4 15 ppm	0.004	0.004	0.0002
CO	3.5	2.61	0.01	NSPS 4I	2.01	2.01	0.10
NMHC + NO _x	4	-	-	NSPS 4I	-	-	-
NO _x	3.7	2.74	0.01	NSPS 4I	2.12	2.12	0.11
Total VOC	0.3	0.24	0.001	NSPS 4I	0.18	0.18	0.01

^d **350 Hp Firewater Pump Engine:**

NMHC + NO_x, CO, and PM taken from 40 CFR 60, Subpart IIII, Table 4 [225<=kW<450 (300<=Hp<600)]; PM factor used for PM₁₀ and PM_{2.5}; NMHC + NO_x factor used for VOC and NO_x by assuming 92% NO_x and 8% VOC, based on the ratios of NO_x and VOC AP-42 emission factors.

^e 1 kW = 1.341 hp

Greenhouse Gas Emission Factors

Pollutant	Global Warming Potential ^f	Emission Factor ^g (kg/MMBtu)
CO ₂	1	73.96
CH ₄	25	3.0E-03
N ₂ O	298	6.0E-04
CO ₂ e	-	-

^f Default global warming potentials from 40 CFR 98 Subpart A, Table A-1.

^g Default emission factors from 40 CFR 98 Subpart C, Tables C-1 and C-2, for diesel.

Greenhouse Gas Emissions Summary

EPN	CO ₂			CH ₄			N ₂ O			CO ₂ e		
	(metric tpy) ^h	(short tpy) ⁱ	(lb/hr)	(metric tpy) ^h	(short tpy) ⁱ	(lb/hr)	(metric tpy) ^h	(short tpy) ⁱ	(lb/hr)	(metric tpy) ^h	(short tpy) ⁱ	(lb/hr)
(P) FWP-1	18	20	399	0.02	0.02	0.4	0.04	0.05	1	18	20	401

^h Calculated by using 40 CFR 98 Subpart C Equation C-1b.

ⁱ Calculated by multiplying metric tons per year by 1.10231 short tons/metric ton, as per 40 CFR 98 Subpart A, Table A-2.

Texas GulfLink, LLC
Offshore Platform
Pigging Operations

EPN	Description
(P) P-1	MSS - Pigging Operations

The chambers for the inlet gas and residue gas receivers were estimated as shown below.

Gas Line
Receiver

Receiver diameter	54 in
Receiver length	38 ft
Pipeline Pressure	1 psig
Receiver volume	604.36 cu ft
Gas volume	645.48 SCF
Duration of releases	0.50 hr
Releases per year	12 # per yr

VMW of Crude from TANKS 4.09d:	50.00 lb/lbmol
	385.30 scf/lbmol
	1.68 lbmol
	83.76 lbs VOC per event
	1,005.16 lbs VOC per year

From TANKS 4.09d:

NAME	V_WT_FRACT	
Hexane (-n)	0.022831039	0.50 tons VOC per year
Benzene	0.004411371	0.01147 tons/yr n-Hexane
Isooctane	0.000379612	0.00222 tons/yr Benzene
Toluene	0.002159389	0.00019 tons/yr Isooctane
Ethylbenzene	0.00029583	0.00109 tons/yr Toluene
Xylene (-m)	0.000865592	0.00015 tons/yr Ethylbenzene
Isopropyl benzene	3.37653E-05	0.00044 tons/yr Xylene
		0.00002 tons/yr Cumene

83.76 lbs VOC per hr
1.91 lbs/hr n-Hexane
0.37 lbs/hr Benzene
0.03 lbs/hr Isooctane
0.18 lbs/hr Toluene
0.02 lbs/hr Ethylbenzene
0.07 lbs/hr Xylene
0.003 lbs/hr Cumene

Hydrogen Sulfide Emissions:

Molecular Weight of H ₂ S (lb/lbmol):	34.1
Average Concentration of H ₂ S in Crude (ppmv):	5
Molecular Weight of Crude (lb/lbmol):	50
Average TVP of Crude (psia):	8.98
Average Concentration of H ₂ S in Crude is an assumption.	

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	6.41E-07	6.41E-07	2.81E-06

Texas GulfLink, LLC
Offshore Platform
Platform Fugitive Emissions

EPN	Description
(P) F-1	Platform Fugitive Emissions

Given:

Component Type	Service	Component Count
valves	Light liquid (LL)	163
pump seals	Light liquid (LL)	4
flanges	Light liquid (LL)	378

The number of flanges is assumed to be twice that of valves.

Calculation Methodology:

VOC Average Hourly Rate [lb/hr] = TCEQ Emission Factor [lb/hr/component] x Component Count

VOC TAP Speciate Hourly Rate [lb/hr] = Liquid Mass Fraction x Total VOC Average Hourly Rate [lb/hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

Air Permit Technical Guidance for Chemical Sources - Fugitive Guidance, APDG 6422, Air Permits Division TCEQ, June 2018, Table II

Emission Calculation:

Component Type	Light Liquid Emission Factor [lb/hr/component]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
valves	0.0000948	0.02	0.02	0.07
pump seals	0.00119	0.005	0.005	0.02
flanges	0.00001762	0.01	0.01	0.03
Total VOC		0.03	0.03	0.12

VOC TAP Speciation	Liquid Mass Fraction ⁽¹⁾	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	0.006	0.0002	0.0002	0.0007
Ethylbenzene	0.004	0.00011	0.00011	0.0005
n-Hexane	0.019	0.00052	0.00052	0.0023
Toluene	0.010	0.0003	0.0003	0.0012
Xylenes	0.014	0.0004	0.0004	0.002
Cumene (Isopropyl benzene)	0.001	0.00003	0.00003	0.00012
Iso-octane	0.001	0.00003	0.00003	0.00012

Notes:

(1) VOC TAP Speciation Profile from TANKS 4.09d for Crude Oil.

Hydrogen Sulfide Emissions:

Molecular Weight of H₂S (lb/lbmol): 34.1
Average Concentration of H₂S in Crude (ppmv): 5
Molecular Weight of Crude (lb/lbmol): 50
Average TVP of Crude (psia): 8.98

Average Concentration of H₂S in Crude is an assumption.

Pollutant	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Hydrogen Sulfide	1.50E-07	1.50E-07	6.57E-07

Texas GulfLink, LLC
Offshore Platform
SPM System Fugitives

EPN	Description
(P) F-2	SPM System Fugitives

Maximum w/ Contingency (days per year)

365 days
24 hr/day

Emission Calculations

Component Type	Total Number of Components [1]	Oil & Gas Emission Factor	Fugitive Emission Factor [2]	Total Organic Compound	Total Organic Compound	Total Organic Compound	Total Organic Compound
		(lb/hr)	(lb/hr/component)	Average lbs/hr	Maximum lbs/hr	lbs/day	tons/project
Valves	16	Light Liquid (Light Oil> 20° API)	5.50E-03	8.80E-02	8.80E-02	2.11	0.39
Flanges	52	Light Liquid (Light Oil> 20° API)	2.43E-04	1.26E-02	1.26E-02	0.30	0.06
Total TOC [4] - Heavy Oil Streams				0.10	0.10	2.42	0.44

[1] Component counts are based on engineering design information provided by Abadie-Williams LLC.

[2] Emission Factors were obtained from *Table 4. Average Emission Factors - Petroleum Industry* (Oil & Gas Production Operations) of TCEQ's Addendum to RG-360A, Emission Factors for Equipment Leak Fugitives Components, January 2008.

[3] Fugitive emissions are conservatively estimated to be 100% VOC.

[4] Annual operating hours are conservatively assumed to be 8,760 hours per year.

Texas GulfLink, LLC
Offshore Platform
Miscellaneous Emissions

EPN	Description
(P) S-1	Sampling Activities
(P) PM-1	MSS - Pump Maintenance

Sampling Activities

Emissions from sampling activities are estimated based on the following:

Quantity	Units
1	sample/shift
3	shifts/day
0.1	lb VOC/sample
0.1	lb VOC/hr
0.05	ton VOC/yr

MSS - Pump Maintenance

Emissions from pump maintenance are estimated based on the following:

Quantity	Units
4	pumps
1	maintenance event/yr
1	lb/maintenance event
4	lb VOC/hr
0.002	ton VOC/yr

MSS Emissions Associated with Abrasive Blasting and Painting

Company Name	Texas GulfLink, LLC
Site Name	Offshore Platform
Source Name	MSS - Abrasive Blasting / Painting
EPN	(P) MSS-1

1. Input variables such as amount of paint used (gallons) or number of hours blasting operation occurs in the yellow box.
Default numbers are included for your convenience but may be edited

2.

#	Activity	Description / comments	Default parameters		Input parameters		Annual emissions (tpy)
1	(b)(2) <i>Aerosol Cans</i> Includes spray paints and primers, degreasers, cleaners and other solvents, rust inhibitors	- 90% VOC content is an average obtained from a survey of MSDS sheets (c)(d)(e) for spray paints and primers, degreasers, cleaners and other solvents, rust inhibitors. This does not include lubricants. -VOC is propellant. 100% VOC evaporates.	Standard Industrial Size Cans (oz.)	16	Number of 16 oz cans used	100	0.045 VOC (tpy)
			VOC emissions (lb/can)	0.9			
2	(b)(2) <i>Manual application of paints, primer</i> Touch up paint	-100% VOC evaporates - Survey of MSDS sheets (a) (b) indicates VOC content varies from 2 lb/gallon to 7 lb/gallon. As Chapter 115 limits VOC content to 3.5 lb/gal in nonattainment areas this was used as a conservative amount -Usage of paint based on technical expertise and NSR permit section reviews.	VOC content (lb/gal)	3.5	Paint used (gallons)	25	0.044 VOC (tpy)
3	(b)(2) <i>Painting Tanks and Other Immovable Fixed Structures</i> Spray Painting	-100% VOC evaporates -Painting used on 1 tank or 1 vessel per year - Survey of MSDS sheets (a)(b) indicates VOC content varies from 2 lb/gallon to 7 lb/gallon. As Chapter 115 limits VOC content to 3.5 lb/gal in nonattainment areas this was used as a conservative amount. -Input parameters based on TCEQ Surface Coating Guidance Document for Air Quality Permit Applications. -Per field research in 2012, company indicated that a large site uses around 100 gallons to paint pipes and tanks in 6 month period.	VOC content (lb/gal)	3.5	Paint used (gallons)	100	0.175 VOC (tpy)
			PM _{10 & 2.5} content (lb/gal)	8			0.008 PM ₁₀ (tpy)
			Transfer Efficiency PM _{10 & 2.5} (%)	65			0.001 PM _{2.5} (tpy)
			Droplet factor for PM _{2.5} overspray (%)	99			
			Droplet factor for PM ₁₀ overspray (%)	94			
4	(b)(2) <i>Sandblasting</i>	-An application rate of 2,000 lb/hr. -Per industry expertise and BMP, blasting occurs for 5 days per year and 8 hrs per day -Emission factors for PM10 based on TCEQ Abrasive Blast Cleaning technical guidance document. Emission factor for PM2.5 is based on 15% of PM10 emission factor.	Emission factor for PM ₁₀ (lb/lb of usage)	0.0014	Number of hours blasting operation occurs	40	0.056 PM ₁₀ (tpy)
			Application rate (lb/hr)	2000			0.0084 PM _{2.5} (tpy)
			PM ₁₀ Emissions (lb/hr)	2.8			
			Emission factor for PM _{2.5} (lb/lb of usage)	0.00021			
			Application rate (lb/hr)	2000			
			PM _{2.5} Emissions (lb/hr)	0.42			

	TPY	lbs/hr
Total VOC emissions	0.26	0.06
Total PM ₁₀ emissions	0.06	0.01
Total PM _{2.5} emissions	0.01	0.002

Appendix D
Detailed Regulatory Analysis (TCEQ Title V Forms)

Form OP-CRO1	Certification by Responsible Official
Form OP-1	Site Information Summary
Form OP-REQ1	Application Area-Wide Applicability Determinations and General Information
Form OP-REQ2	Negative Applicable Requirement Determination
Form OP-UA	Unit Attribute Forms
Form OP-SUM	Individual Unit Summary for Revisions

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN:	CN:CN605724657	Account No.:
Permit No.: TBA	Project No.: TBA	
Area Name: Deepwater Port	Company Name: Texas GulfLink, LLC	
II. Certification Type <i>(Please mark the appropriate box)</i>		
<input checked="" type="checkbox"/> Responsible Official		<input type="checkbox"/> Duly Authorized Representative
III. Submittal Type <i>(Please mark the appropriate box) (Only one response can be accepted per form)</i>		
<input type="checkbox"/> SOP/TOP Initial Permit Application		<input type="checkbox"/> Update to Permit Application
<input type="checkbox"/> GOP Initial Permit Application		<input type="checkbox"/> Permit Revision, Renewal, or Reopening
<input checked="" type="checkbox"/> Other: <u>EPA Federal Operating Initial Permit Application</u>		
IV. Certification of Truth		
<p>This certification does not extend to information which is designated by the TCEQ as information for reference only.</p> <p>I, <u>Jeff Ballard</u> certify that I am the <u>RO</u> <i>(Certifier Name printed or typed) (RO or DAR)</i></p> <p>and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:</p> <p><i>Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).</i></p> <p>Time Period: From _____ to _____ <div style="text-align: center;"><i>Start Date End Date</i></div></p> <p>Specific Dates: <u>March 6, 2020</u> _____ <div style="text-align: center;"><i>Date 1 Date 2 Date 3 Date 4 Date 5 Date 6</i></div></p> <p>Signature: _____ Signature Date: _____</p> <p>Title: <u>President and CEO</u></p>		

All initial permit application, permit revision, and renewal submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

TCEQ-10009 (APDG 5836v6, Revised 08/18) OP-CRO1
This form is for use by facilities subject to air quality permit requirements and
may be revised periodically. (Title V Release 08/18)

Page of

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 1		
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter		
A. Visible Emissions		
◆	1. The application area includes stationary vents constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The application area includes stationary vents constructed after January 31, 1972. <i>If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6.</i> <i>If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. All stationary vents are addressed on a unit specific basis.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7. The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. Emissions from units in the application area include contributions from uncombined water.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	9. The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 2	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
B. Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots	
1. Items a - d determines applicability of any of these requirements based on geographical location.	
◆ a.	The application area is located within the City of El Paso. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ b.	The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ c.	The application area is located in the portion of Harris County inside the loop formed by Beltway 8. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ d.	The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If there is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "NO," go to Section I.C.</i>	
2. Items a - d determine the specific applicability of these requirements.	
◆ a.	The application area is subject to 30 TAC § 111.143. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ b.	The application area is subject to 30 TAC § 111.145. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ c.	The application area is subject to 30 TAC § 111.147. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ d.	The application area is subject to 30 TAC § 111.149. <input type="checkbox"/> YES <input type="checkbox"/> NO
C. Emissions Limits on Nonagricultural Processes	
◆ 1.	The application area includes a nonagricultural process subject to 30 TAC § 111.151. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2.	The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>If the response to Question I.C.2 is "NO," go to Question I.C.4.</i>
3.	All vents from nonagricultural process in the application area are subject to additional monitoring requirements. <input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 3	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
C. Emissions Limits on Nonagricultural Processes (continued)	
4. The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.5 is "NO," go to Question I.C.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6. All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8. The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.8 is "NO," go to Section I.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
9. All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Emissions Limits on Agricultural Processes	
1. The application area includes agricultural processes subject to 30 TAC § 111.171.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Outdoor Burning	
◆ 1. Outdoor burning is conducted in the application area. <i>If the response to Question I.E.1 is "NO," go to Section II.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 4	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
E. Outdoor Burning (continued)	
◆ 5. Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.	<input type="checkbox"/> YES <input type="checkbox"/> NO
II. Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds	
A. Temporary Fuel Shortage Plan Requirements	
1. The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	
A. Applicability	
◆ 1. The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. <i>See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
B. Storage of Volatile Organic Compounds	
◆ 1. The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 5	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
C. Industrial Wastewater	
1. The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. <i>If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. <i>If the response to Question III.C.2 is "YES" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). <i>If the response to Question III.C.3 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). <i>If the response to Question III.C.4 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Loading and Unloading of VOCs	
◆ 1. The application area includes VOC loading operations.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The application area includes VOC transport vessel unloading operations. <i>For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 6	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
D. Loading and Unloading of VOCs (continued)	
◆ 3. Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities	
◆ 1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. <i>If the response to Question III.E.1 is "NO," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. <i>If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area is located in a covered attainment county as defined in 30 TAC § 115.10. <i>If the response to Question III.E.4 is "NO," go to Question III.E.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 5. Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. <i>If the response to Question III.E.7 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 7		
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)		
◆	8. At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. <i>If the response to Question III.E.8 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)		
◆	1. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 8		
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)		
◆	2. Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
G. Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities		
◆	1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks. <i>If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes facilities that began construction prior to November 15, 1992. <i>If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 9	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
H. Control Of Reid Vapor Pressure (RVP) of Gasoline	
◆ 1. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County. <i>If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes a motor vehicle fuel dispensing facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	<input type="checkbox"/> YES <input type="checkbox"/> NO
I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries	
1. The application area is located at a petroleum refinery.	<input type="checkbox"/> YES <input type="checkbox"/> NO
J. Surface Coating Processes (Complete this section for GOP applications only.)	
◆ 1. Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(a)(3)(A) or 115.427(b)(1) are performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 10

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

K. Cutback Asphalt

1.	Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. <i>If the response to Question III.K.1 is "N/A," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
2.	The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
3.	Asphalt emulsion is used or produced within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area is using an alternate control requirement as specified in 30 TAC § 115.513. <i>If the response to Question III.K.4 is "NO," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The applicant using cutback asphalt is a state, municipal, or county agency.	<input type="checkbox"/> YES <input type="checkbox"/> NO

L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels

◆	1. The application area includes degassing operations for stationary, marine, and/or transport vessels. <i>If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. <i>If the response to Question III.L.2 is "YES," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 11

III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)

◆	3.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	4.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	5.	Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	7.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure \geq 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

M. Petroleum Dry Cleaning Systems

	1.	The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
--	----	--	--

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 12	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
N. Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC))	
1. The application area includes one or more vent gas streams containing HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes one or more flares that emit or have the potential to emit HRVOC. <i>If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
3. All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. <i>If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area contains pressure relief valves that are not controlled by a flare.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area has at least one vent stream which has no potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	<input type="checkbox"/> YES <input type="checkbox"/> NO
O. Cooling Tower Heat Exchange Systems (HRVOC)	
1. The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 13

IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds

A. Applicability

◆	1. The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area. <i>For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H. For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F. For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F. For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. <i>If the response to Question IV.A.2 is "YES," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3. The application area includes a utility electric generator in an east or central Texas county. <i>See instructions for a list of counties included. If the response to Question IV.A.3 is "YES," go to Question IV.G.1. If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

B. Utility Electric Generation in Ozone Nonattainment Areas

	1. The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. <i>If the response to Question IV.B.1 is "NO," go to Question IV.C.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	2. The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 14	
IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)	
C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas	
◆ 1. The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. <i>For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The application area is located at a site that was a major source of NO _x before November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Adipic Acid Manufacturing	
1. The application area is located at, or part of, an adipic acid production unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
E. Nitric Acid Manufacturing - Ozone Nonattainment Areas	
1. The application area is located at, or part of, a nitric acid production unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines	
◆ 1. The application area is located at a site that is a minor source of NO _x in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County). <i>For SOP applications, if the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 15

IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)

◆	4.	The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5.	The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	6.	The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125. <i>If the response to Question IV.F.6 is "NO," go to Section IV.G.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	7.	An ACSS for carbon monoxide (CO) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8.	An ACSS for ammonia (NH ₃) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> NO
	9.	Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS below.	

G. Utility Electric Generation in East and Central Texas

	1.	The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. <i>If the response to Question IV.G.1 is "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	2.	The application area is complying with the System Cap in 30 TAC § 117.3020.	<input type="checkbox"/> YES <input type="checkbox"/> NO

H. Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters

	1.	The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. <i>If the response to question IV.H.1 is "NO," go to Section V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2.	All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 16

V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products

A. Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings

- | | |
|---|---|
| 1. The application area manufactures automobile refinishing coatings or coating components and sells or distributes these coatings or coating components in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area imports automobile refinishing coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States.
<i>If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. All automobile refinishing coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

B. Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products

- | | |
|--|---|
| 1. The application area manufactures consumer products for sale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products.
<i>If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 4. All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 17	
V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)	
C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings	
1. The application area manufactures or imports architectural coatings for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. <i>If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings	
1. The application area manufactures or imports aerosol coating products for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is a distributor of aerosol coatings for resale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers	
1. The application area manufactures or imports portable fuel containers for sale or distribution in the United States. <i>If the response to Question V.E.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards	
A. Applicability	
◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. <i>If the response to Question VI.A.1 is "NO," go to Section VII.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 18		
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)		
B. Subpart Y - Standards of Performance for Coal Preparation and Processing Plants		
1.	The application area is located at a coal preparation and processing plant. <i>If the response to Question VI.B.1 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). <i>If the response to Question VI.B.2 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. <i>If the response to Question VI.B.3 is "YES," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The plant contains an open storage pile, as defined in § 60.251, as an affected facility. <i>If the response to Question VI.B.4 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The open storage pile was constructed, reconstructed or modified after May 27, 2009.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)		
◆ 1.	The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired. <i>If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
◆ 2.	One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. <i>If the response to Question VI.C.2 is "NO," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3.	One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4.	The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 19	
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)	
◆ 5. One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals	
1. The application area includes bulk gasoline terminal loading racks. <i>If the response to Question VI.D.1 is "NO," go to Section VI.E.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions	
◆ 1. The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). <i>For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. <i>For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD. <i>For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 20

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions (continued)

◆	4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. <i>For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.	

F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

1.	The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. <i>If the response to Question VI.F.1 is "NO," go to Section VI.G.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	<input type="checkbox"/> YES <input type="checkbox"/> NO

G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems

1.	The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. <i>If the response to Question VI.G.1 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area includes storm water sewer systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 21	
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)	
3. The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes non-contact cooling water systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes individual drain systems. <i>If the response to Question VI.G.5 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes completely closed drain systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004	
◆ 1. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.H.4 is "NO," go to Section VI.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 22

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)

◆	5. The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. <i>If the response to Question VI.H.5 is "NO," go to Question VI.H.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001

◆	1. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 23

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)

◆	3. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.I.4 is "NO," go to Section VI.J.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. <i>If the response to Question VI.I.5 is "NO," go to VI.I.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 24

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006

◆	1. The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.J.4 is "NO," go to Section VI.K.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. <i>If the response to Question VI.J.5 is "NO," go to Question VI.J.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 25	
VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)	
J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)	
◆ 8. All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 9. The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 10. The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
K. Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution	
◆ 1. The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants	
A. Applicability	
◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts. <i>If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
B. Subpart F - National Emission Standard for Vinyl Chloride	
1. The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)	
◆ 1. The application area includes equipment in benzene service.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 26

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants

- | | |
|---|--|
| 1. The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b).
<i>If the response to Question VII.D.1 is "NO," go to Section VII.E.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

E. Subpart M - National Emission Standard for Asbestos

Applicability

- | | |
|---|--|
| 1. The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155.
<i>If the response to Question VII.E.1 is "NO," go to Section VII.F.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
|---|--|

Roadway Construction

- | | |
|---|--|
| 2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
|---|--|

Manufacturing Commercial Asbestos

- | | |
|--|--|
| 3. The application area includes a manufacturing operation using commercial asbestos.
<i>If the response to Question VII.E.3 is "NO," go to Question VII.E.4.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| a. Visible emissions are discharged to outside air from the manufacturing operation | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 27

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Manufacturing Commercial Asbestos (continued)

c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
f. A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Asbestos Spray Application

4. The application area includes operations in which asbestos-containing materials are spray applied. <i>If the response to Question VII.E.4 is "NO," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. <i>If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 28

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Asbestos Spray Application (continued)

d. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
f. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> NO
h. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Fabricating Commercial Asbestos

5. The application area includes a fabricating operation using commercial asbestos. <i>If the response to Question VII.E.5 is "NO," go to Question VII.E.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 29	
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
E. Subpart M - National Emission Standard for Asbestos (continued)	
<i>Fabricating Commercial Asbestos (continued)</i>	
f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Non-sprayed Asbestos Insulation</i>	
6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Asbestos Conversion</i>	
7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	
1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process.	<input type="checkbox"/> YES <input type="checkbox"/> NO
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations	
1. The application area is located at a benzene production facility and/or bulk terminal. <i>If the response to Question VII.G.1 is "NO," go to Section VII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area includes benzene transfer operations at marine vessel loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 30	
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)	
3. The application area includes benzene transfer operations at railcar loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
H. Subpart FF - National Emission Standard for Benzene Waste Operations	
Applicability	
1. The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). <i>If the response to Question VII.H.4 is "YES," go to Section VIII</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. <i>If the response to Question VII.H.5 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 31

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Applicability (continued)

- | | | |
|----|--|--|
| 6. | The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | The application area has waste streams with flow-weighted annual average water content of 10% or greater. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Waste Stream Exemptions

- | | | |
|-----|--|--|
| 8. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 9. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 10. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 11. | The application area transfers waste off-site for treatment by another facility. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 12. | The application area is complying with 40 CFR § 61.342(d). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 13. | The application area is complying with 40 CFR § 61.342(e).
<i>If the response to Question VII.H.13 is "NO," go to Question VII.H.15.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 14. | The application area has facility waste with a flow weighted annual average water content of less than 10%. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 32

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Container Requirements

15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. ☐ YES ☐ NO
If the response to Question VII.H.15 is "NO," go to Question VII.H.18.

16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. ☐ YES ☐ NO
If the response to Question VII.H.16 is "YES," go to Question VII.H.18.

17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure. ☐ YES ☐ NO

Individual Drain Systems

18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. ☐ YES ☐ NO
If the response to Question VII.H.18 is "NO," go to Question VII.H.25.

19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. ☐ YES ☐ NO
If the response to Question VII.H.19 is "YES," go to Question VII.H.25.

20. The application area has individual drain systems complying with 40 CFR § 61.346(a). ☐ YES ☐ NO
If the response to Question VII.H.20 is "NO," go to Question VII.H.22.

21. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure. ☐ YES ☐ NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 33

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Individual Drain Systems (continued)

22. The application area has individual drain systems complying with 40 CFR § 61.346(b). ☐ YES ☐ NO
If the response to Question VII.H.22 is "NO," go to Question VII.H.25.

23. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation. ☐ YES ☐ NO

24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device. ☐ YES ☐ NO

Remediation Activities

25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF. ☐ YES ☐ NO

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories

A. Applicability

◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. ☒ YES ☐ NO
See instructions for 40 CFR Part 63 subparts made applicable only by reference.

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry

1. The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). ☒ YES ☐ NO
If the response to Question VIII.B.1 is "NO," go to Section VIII.D.

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 34

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)

2.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). <i>If the response to Question VIII.B.2 is "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. <i>If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 35

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater

Applicability

- | | | |
|----|--|--|
| 1. | The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F.
<i>If the response to Question VIII.C.1 is "NO," go to Section VIII.D.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. | The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148.
<i>If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere.
<i>If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Vapor Collection and Closed Vent Systems

- | | | |
|----|---|--|
| 6. | Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 36

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Reloading or Cleaning of Railcars, Tank Trucks, or Barges

8. The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. ☐ YES ☐ NO
If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.

9. The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater. ☐ YES ☐ NO

10. The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system. ☐ YES ☐ NO

Transfer Racks

11. The application area includes Group 1 transfer racks that load organic HAPs. ☐ YES ☐ NO

Process Wastewater Streams

12. The application area includes process wastewater streams. ☐ YES ☐ NO
If the response to Question VIII.C.9 is "NO," go to Question VIII.C.31.

13. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. ☐ YES ☐ NO
If the response to Question VIII.C.10 is "NO," go to Question VIII.C.12.

14. The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii). ☐ YES ☐ NO

15. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. ☐ YES ☐ NO
If the response to Question VIII.C.12 is "NO," go to Question VIII.C.14.

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 37

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Process Wastewater Streams (continued)

16.	The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. <i>If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
18.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
19.	The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21.	The application area includes process wastewater streams, located at existing sources that are Group 2.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
23.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 38	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)	
Process Wastewater Streams (continued)	
24. All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
25. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
27. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
28. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.C.24 - VIII.C.25 are both "NO," go to Question VIII.C.27.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 39

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Drains

31. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
33. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
34. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). <i>If the response to Question VIII.C.31 is "NO," go to Question VIII.C.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
35. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). <i>If the response to Question VIII.C.32 is "NO," go to Question VIII.C.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
36. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 40	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
C. Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)	
Drains (continued)	
37. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
38. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Gas Streams	
39. The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.	<input type="checkbox"/> YES <input type="checkbox"/> NO
40. The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	
1. The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 41	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
E. Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities	
1. The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials. <i>If the response to Question VIII.E.1 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O. <i>If the response to Question VIII.E.2 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers	
1. The application area includes industrial process cooling towers. <i>If the response to Question VIII.F.1 is "NO," go to Section VIII.G.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Chromium-based water treatment chemicals have been used on or after September 8, 1994.	<input type="checkbox"/> YES <input type="checkbox"/> NO
G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)	
1. The application area includes a bulk gasoline terminal.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes a pipeline breakout station. <i>If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station. <i>If the response to Question VIII.G.3 is "YES," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 42

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)

4.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. <i>If the response to Question VIII.G.4 is "YES," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. <i>If the response to Question VIII.G.5 is "NO," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). <i>If the response to Question VIII.G.5 is "NO," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	Emissions screening factor less than 0.5 (ET or EP < 0.5). <i>If the response to Question VIII.G.6 is "YES," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). <i>If the response to Question VIII.G.7 is "YES," go to Section VIII.H</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). <i>If the response to Question VIII.G.8 is "YES," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The site at which the application area is located is a major source of HAP. <i>If the response to Question VIII.G.9 is "NO," go to Section VIII.H</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 43

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2. <i>If the response to Question VIII.H.1 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). <i>If the response to Question VIII.H.2 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. <i>If the response to Question VIII.H.3 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes one or more kraft pulping systems that are existing sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. <i>If the response to Question VIII.H.6 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 44

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning

- | | |
|---|---|
| 1. The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins

- | | |
|--|---|
| 1. The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units.
<i>If the response to Question VIII.J.1 is "NO," go to Section VIII.K.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U.
<i>If the response to Question VIII.J.2 is "NO," go to Section VIII.K.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 45

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 46	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)	
Containers	
11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Drains	
12. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. <i>If the response to Question VIII.J.15 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). <i>If the response to Question VIII.J.16 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 47	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)	
Drains (continued)	
17. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production	
1. The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area. <i>If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes a BLR and/or WSR research and development facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 48	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
L. Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting	
1. The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter. <i>If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
2. The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
M. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations	
1. The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries	
Applicability	
1. The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7). <i>If the response to Question VIII.N.1 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7). <i>If the response to Question VIII.N.2 is "YES," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 49

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

Applicability (continued)

3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). <i>If the response to Question VIII.N.3 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. <i>If the response to Question VIII.N.4 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. <i>If the response to Question VIII.N.7 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 50

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

Applicability (continued)

9. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO
If the response to Question VIII.N.9 is "NO," go to Section VIII.O.

10. The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992. ☐ YES ☐ NO

Containers, Drains, and other Appurtenances

11. The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO

12. The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii). ☐ YES ☐ NO

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations

1. The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). ☐ YES ☒ NO ☐ N/A
If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P

2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area. ☐ YES ☐ NO

3. The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265. ☐ YES ☐ NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 51

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)

4.	The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a “state” or “municipality.”	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The predominant activity in the application area is the treatment of wastewater received from off-site.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. <i>If the response to Question VIII.O.10 is “YES,” go to Section VIII.P.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 52	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)	
11. The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. <i>If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. VOHAP concentration is determined by direct measurement.	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. VOHAP concentration is based on knowledge of the off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. <i>If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes containers that manage non-exempt off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes individual drain systems that manage non-exempt off-site materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 53	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
P. Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities	
1. The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components. <i>If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> NO
Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.	
◆ 1. The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. <i>For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.</i> <i>For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 3. The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761. <i>For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.</i> <i>For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area is located at a site that is a major source of HAP. <i>If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 54		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)		
◆	<p>5. The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft³) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day.</p> <p><i>For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R.</i></p> <p><i>For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z.</i></p> <p><i>For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>6. The application area includes a triethylene glycol (TEG) dehydration unit.</p> <p><i>For SOP applications, if the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>7. The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>8. The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>9. Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 55	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
R. Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)	
1. The application area includes shipbuilding or ship repair operations. <i>If the response to Question VIII.R.1 is "NO," go to Section VIII.S.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	<input type="checkbox"/> YES <input type="checkbox"/> NO
S. Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations	
1. The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations. <i>If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	<input type="checkbox"/> YES <input type="checkbox"/> NO
T. Subpart KK - National Emission Standards for the Printing and Publishing Industry	
1. The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
U. Subpart PP - National Emission Standards for Containers	
1. The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions. <i>If the response to Question VIII.U.1 is "NO," go to Section VIII.V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes containers using Container Level 1 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes containers using Container Level 2 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 56	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
U. Subpart PP - National Emission Standards for Containers (continued)	
4. The application area includes containers using Container Level 3 controls.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
V. Subpart RR - National Emission Standards for Individual Drain Systems	
1. The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards	
1. The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. <i>If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 57	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
7. The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 58

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. <i>If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). <i>If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 59

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area includes an ethylene production process unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
21. The application area includes waste streams generated from an ethylene production process unit. <i>If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
22. The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). <i>If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23. Waste stream(s) are transferred off-site for treatment. <i>If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. <i>If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 60	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
25. The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). <i>If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
27. The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. <i>If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
28. The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). <i>If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29. The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30. The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. <i>If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
31. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 61

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. <i>If the response to Question VIII.W.32 is required, go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
33. The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. <i>If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
34. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
35. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
36. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. <i>If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
37. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 62	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
38. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
39. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
40. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
41. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
42. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
43. The application area has at least one waste stream that contains benzene. <i>If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
44. The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. <i>If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
45. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 63	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
46. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
47. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. <i>If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
48. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
49. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
50. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
51. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
52. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 64	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
53. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
54. The application area contains a cyanide chemicals manufacturing process. <i>If the response to Question VIII.W.54 is "NO," go to Section VIII.X.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	<input type="checkbox"/> YES <input type="checkbox"/> NO
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins	
1. The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. <i>If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. <i>If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene. <i>If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. <i>If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 65

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 66	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)	
13. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Containers	
14. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Drains	
15. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a thermoplastic product process unit. <i>If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 67

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

Drains (continued)

- | | |
|--|--|
| 19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12).
<i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 20. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 21. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 22. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 68	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
Y. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	
1. The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Z. Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.	
◆ 1. The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)	
1. The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. <i>If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. <i>If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 69

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

5.	The application area includes process wastewater streams. <i>If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.8 is "YES," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 70

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

13. Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). <i>If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. <i>If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
19. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 71

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

21. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). <i>If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). <i>If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	<input type="checkbox"/> YES <input type="checkbox"/> NO
25. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 72	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)	
BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.	
1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation	
1. The application area includes a facility at which a site remediation is conducted. <i>If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a site that is a major source of HAP. <i>If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). <i>If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr. <i>If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The site remediation will be completed within 30 consecutive calendar days.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. No site remediation will exceed 30 consecutive calendar days. <i>If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. <i>If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 73

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)

- | | | |
|-----|---|--|
| 9. | The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG.
<i>If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 10. | The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 11. | The application area includes containers with a capacity greater than 0.46 m ³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 12. | The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 13. | The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 14. | The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities

- | | | |
|----|--|---|
| 1. | The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions.
<i>If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The EAF steelmaking facility is a research and development facility.
<i>If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | Metallic scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | Scrap containing motor vehicle scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | Scrap not containing motor vehicle scrap is utilized in the EAF. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 74	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities	
1. The application area is located at a site that is an area source of HAPs. <i>If the answer to Question EE.1 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB. <i>If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. <i>If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The bulk gasoline terminal has throughput of less than 250,000 gallons per day. <i>If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. The bulk gasoline terminal loads gasoline into railcar cargo tanks. <i>If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 75	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)	
11. The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
FF. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	
◆ 1. The application area is located at a site that is an area source of hazardous air pollutants. <i>If the answer to Question VIII.FF.1 is "NO," go to Section VIII.GG.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. <i>If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
GG. Recently Promulgated 40 CFR Part 63 Subparts	
◆ 1. The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form. <i>If the response to Question VIII.GG.1 is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. Subpart ZZZZ	

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 76	
IX. Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions	
A. Applicability	
◆ 1. The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone	
A. Subpart A - Production and Consumption Controls	
◆ 1. The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
B. Subpart B - Servicing of Motor Vehicle Air Conditioners	
◆ 1. Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
C. Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	
◆ 1. The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
D. Subpart D - Federal Procurement	
◆ 1. The application area is owned/operated by a department, agency, or instrumentality of the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
E. Subpart E - The Labeling of Products Using Ozone Depleting Substances	
◆ 1. The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 77	
X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)	
F. Subpart F - Recycling and Emissions Reduction	
◆ 1. Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. The application area manufactures appliances or refrigerant recycling and recovery equipment.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
G. Subpart G - Significant New Alternatives Policy Program	
◆ 1. The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound. <i>If the response to Question X.G.1 is "NO," go to Section X.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
H. Subpart H -Halon Emissions Reduction	
◆ 1. Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. Disposal of halons or manufacturing of halon blends is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
XI. Miscellaneous	
A. Requirements Reference Tables (RRT) and Flowcharts	
1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 78

XI. Miscellaneous (continued)

B. Forms

◆	1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. <i>If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below.	

C. Emission Limitation Certifications

◆	1. The application area includes units for which federally enforceable emission limitations have been established by certification.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
---	---	---

D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements

	1. The application area is located at a site that is subject to a site specific requirement of the state implementation plan (SIP).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area includes units located at the site that are subject to a site specific requirement of the SIP.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. <i>If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	4. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. <i>If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 79	
XI. Miscellaneous (continued)	
E. Title IV - Acid Rain Program	
1. The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
F. 40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_x Ozone Season Group 2 Trading Program	
1. The application area includes emission units subject to the requirements of the CSAPR NO _x Ozone Season Group 2 Trading Program. <i>If the response to Question XI.F.1 is "NO," go to Question XI.F.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO _x and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes emission units that qualify for the CSAPR NO _x Ozone Season Group 2 retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 80	
XI. Miscellaneous (continued)	
G. 40 CFR Part 97, Subpart FFFFF - Texas SO₂ Trading Program	
1. The application area includes emission units complying with the requirements of the Texas SO ₂ Trading Program. <i>If the response to Question XI.G.1 is "NO," go to Question XI.G.6.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO ₂ and 40 CFR Part 75, Subpart H for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes emission units that qualify for the Texas SO ₂ Trading Program retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
H. Permit Shield (SOP Applicants Only)	
1. A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 81

XI. Miscellaneous (continued)

I. GOP Type (Complete this section for GOP applications only)

◆	1. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO

J. Title 30 TAC Chapter 101, Subchapter H

◆	1. The application area is located in a nonattainment area. <i>If the response to Question XI.J.1 is "NO," go to question XI.J.3.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 82		
XI. Miscellaneous (continued)		
J. Title 30 TAC Chapter 101, Subchapter H (continued)		
◆	4. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO _x .	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
K. Periodic Monitoring		
◆	1. The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The permit currently contains at least one periodic monitoring requirement. <i>If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	3. All periodic monitoring requirements are being removed from the permit with this application.	<input type="checkbox"/> YES <input type="checkbox"/> NO
L. Compliance Assurance Monitoring		
◆	1. The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. <i>If the response to Question XI.L.1 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 83		
XI. Miscellaneous (continued)		
L. Compliance Assurance Monitoring (continued)		
◆	2. The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. <i>If the response to Question XI.L.2 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. <i>If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	5. The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	6. Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.	
◆	7. At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). <i>If the response to Question XI.L.8 is "YES," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. The CAM proposal as described by question XI.L.3 or XI.L.4 addresses particulate matter or opacity.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. The CAM proposal as described by question XI.L.3 or XI.L.4 addresses VOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 84

XI. Miscellaneous (continued)

M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times

- | | | |
|---|---|---|
| ◆ | 1. The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004.
<i>If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ | 2. All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

XII. New Source Review (NSR) Authorizations

A. Waste Permits with Air Addendum

- | | | |
|---|--|---|
| ◆ | 1. The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum.
<i>If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|--|---|

B. Air Quality Standard Permits

- | | | |
|---|--|---|
| ◆ | 1. The application area includes at least one Air Quality Standard Permit NSR authorization.
<i>If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H, and answer XII.B.2 - B.16 as appropriate.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ | 2. The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 3. The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 4. The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 5. The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 6. The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 85		
XII. New Source Review (NSR) Authorizations (continued)		
B. Air Quality Standard Permits (continued)		
◆	7. The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8. The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.12 is "NO," go to Question XII.B.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	13. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	14. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	15. The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	16. The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Flexible Permits		
	1. The application area includes at least one Flexible Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Multiple Plant Permits		
	1. The application area includes at least one Multi-Plant Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 86			
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)			
E. PSD Permits and PSD Major Pollutants			
PSD Permit No.: Pending	Issuance Date: TBA	Pollutant(s): VOC and NOx	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
<i>If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
F. Nonattainment (NA) Permits and NA Major Pollutants			
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
<i>If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
G. NSR Authorizations with FCAA § 112(g) Requirements			
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
◆ H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area			
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	2/28/2020
Permit No.:	TBA
RN No.:	N/A

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 87	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
◆ I. Permits by Rule (30 TAC Chapter 106) for the Application Area	
<i>A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.</i>	
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
◆ J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum	
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:

**Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program**

Date: 2/19/2020	Permit No.: TBA	Regulated Entity No.: NA
Area Name: Deepwater Port		Customer Reference No.: CN605724657

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) M-1	OP-REQ2	MACT Y	40 CFR 63.561	The proposed Texas GulfLink Project does not meet the definition of an offshore loading terminal as defined in Subpart Y. Based on the definitions in Subpart Y, an offshore loading terminal subject to Subpart Y requires at least one loading berth at a sea based structure. The Deepwater Port offshore project will not be an offshore loading terminal as contemplated by these definitions. Additionally, a vapor recovery/vapor control system is an onshore or near-shore control technology that has never been achieved in practice at a DWP.
		(P) M-1	OP-REQ2	30 TAC 115 - VOC Transfer Operations	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed Deepwater Port facility because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.

**Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program**

Date: 2/19/2020	Permit No.: TBA	Regulated Entity No.: NA
Area Name: Deepwater Port		Customer Reference No.: CN605724657

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		GRP-BELLYTANKS	OP-REQ2	NSPS Kb	40 CFR 60.110b(a)	This subpart applies to a storage vessel with a capacity greater than or equal to approximately 20,000 gallons that is used to store volatile organic compounds for which construction, modification or reconstruction commenced after July 23, 1984. The belly tanks are 1000 gal tanks that are part of the electric generator, portal crane and firewater pump engine housing. They are not considered stand alone tanks and therefore are not subject to this regulation.
		GRP-BELLYTANKS	OP-REQ2	30 TAC 115-Storage of VOCs	30 TAC 115.10	The requirements of this subchapter do not apply to the proposed Deepwater Port facility because the facility will not be located onshore in a designated nonattainment area or in one of the specifically listed covered attainment areas.

**Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program**

Date: 2/19/2020	Permit No.: TBA	Regulated Entity No.: NA
Area Name: Deepwater Port		Customer Reference No.: CN605724657

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) T-1	OP-REQ2	NSPS Kb	40 CFR 60.111b	This subpart applies to a storage vessel with a capacity greater than or equal to approximately 20,000 gallons that is used to store volatile organic compounds for which construction, modification or reconstruction commenced after July 23, 1984. The proposed crude sugre tank will have a capacity greater than 40,000 gallons but will not be operated as a storage tank as defined in 40 CFR 60.111b. Surge /relief tanks are different from traditional storage tanks since they do not typically hold liquids during normal operations. Such tanks will receive liquids only during a sudden surge event for which the tank will serve as “relief” and quickly receive the excess liquids for a brief period prior to being returned to the pipeline. The surge tank will not typically contain any crude oil. Therefore, this subpart does not apply.

**Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program**

Date: 2/19/2020	Permit No.: TBA	Regulated Entity No.: NA
Area Name: Deepwater Port		Customer Reference No.: CN605724657

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		(P) T-1	OP-REQ2	30 TAC 115-Storage of VOCs	30 TAC 115.10	The requirements of this subchapter does not apply to the proposed Deepwater Port facility because the facility will not be located in a designated non attainment area nor in one of the specifically listed attainment areas.
		GRP-MSS	OP-REQ2	NESHAP V	40 CFR 61.6240(a)	The crude to be handled and loaded at the proposed Deepwater Port facility will contain benzene < 10% by weight. As such, the pipeline components regulated by this subpart (e.g. valves, connectors, pumps, pressure relief devices, sampling connection systems, etc.) will not operate “In VHAP Service”, during normal or MSS operations.as defined in 40 CFR 61.241 Therefore, this subpart does not apply. As there are no other applicable NESHAP rules that apply to the Deepwater Port Facility, Subpart A does not apply.

**Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program**

Date: 2/19/2020	Permit No.: TBA	Regulated Entity No.: NA
Area Name: Deepwater Port		Customer Reference No.: CN605724657

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		GRP-MSS	OP-REQ2	MACT H	40 CFR 63.160(a)	The provisions of this subpart apply to pumps, compressors, agitators, PRDs, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic HAP service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. No Part 63 subpart that applies to the Deepwater Port facility references this Subpart H. Additionally, the facility will not operate pipeline components "In Organic HAP" service (i.e., piece of equipment either contains or contacts a fluid that is at least 5% by weight of total organic HAP) during normal or MSS operations. This subpart does not apply.

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM
Table 1**

Date: 2/19/2020	Regulated Entity No.: NA	Permit No.: TBA
Company Name: Texas GulfLink, LLC		Area Name: Deepwater Port

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
(P) M-1	OP-REQ2	Marine Loading into VLCC			Pending	
(P) G-1	OP-UA2	Diesel-fired electric generator engine			Pending	
(P) G-2	OP-UA2	Diesel-fired electric generator engine			Pending	
(P) C-1	OP-UA2	Diesel-fired portal crane engine			Pending	
(P) DT-1	OP-UA2	Day tank storing diesel fuel (fixed roof)			Pending	
(P)-BT1	OP-REQ2	Belly Tank 1			Pending	GRP-BELLYTANKS
(P)-BT2	OP-REQ2	Belly Tank 2			Pending	GRP-BELLYTANKS
(P)-BT3	OP-REQ2	Belly Tank 3			Pending	GRP-BELLYTANKS
(P)-BT4	OP-REQ2	Belly Tank 4			Pending	GRP-BELLYTANKS
(P) T-1	OP-REQ2	Crude oil surge tank (fixed roof)			Pending	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM
Table 1**

Date: 2/19/2020	Regulated Entity No.: NA	Permit No.: TBA
Company Name: Texas GulfLink, LLC		Area Name: Deepwater Port

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
(P) FWP-1	OP-REQ2	Diesel-fired emergency firewater pump engine (<i>MSS activity</i>)			Pending	
(P) P-1	OP-REQ2	Pipeline Pigging operations (<i>MSS Activity</i>)			Pending	GRP-MSS
(P) F-1	OP-REQ2	Fugitives from platform piping component leaks			Pending	GRP-MSS
(P) F-2	OP-REQ2	Fugitives from SPM piping component leaks			Pending	GRP-MSS
(P) S-1	OP-REQ2	Crude oil sampling activities			Pending	GRP-MSS
(P) PM-1	OP-REQ2	Routine pump maintenance (<i>MSS activity</i>)			Pending	GRP-MSS
(P) MSS-1	NA	Painting/Abrasive Blasting (<i>MSS activity</i>)			Pending	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary
Form OP-SUM**

Table 2: Acid Rain, Cross-State Air Pollution Rule (CSAPR), and Texas SO₂ Trading Program

Date:	Regulated Entity No.:	Permit No.:
Company Name:	Area Name:	Affected Source Plant Code:

Unit ID No.	Applicable Form	COR Unit ID No.	Acid Rain	ARP Status	CSAPR	CSAPR Monitoring	Texas SO ₂	Texas SO ₂ Monitoring	COR

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 1)**

Federal Operating Permit Program

Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)

Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Horsepower Rating	RACT Date Placed in Service	Functionally Identical Replacement	Type of Service	Fuel Fired	Engine Type	ESAD Date Placed in Service	Diesel HP Rating

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 2)**

Federal Operating Permit Program

Table 1b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)

Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	NO _x Emission Limitation	23-C Option	30 TAC Chapter 116 Limit	EGF System CAP Unit	NO _x Averaging Method	NO _x Reduction	NO _x Monitoring System

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 3)**

Federal Operating Permit Program

Table 1c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)

Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Averaging Method	CO Monitoring System	NH ₃ Emission Limitation	NH ₃ Monitoring

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)**

Federal Operating Permit Program

**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines**

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
(P) G-1	63ZZZZ-PG1	MAJOR	500+	06+		NORMAL	CI
(P) G-2	63ZZZZ-PG2	MAJOR	500+	06+		NORMAL	CI
(P) C-1	63ZZZZ-PC1	MAJOR	300-500	06+		NORMAL	CI
(P) FWP-1	63ZZZZ-PFWP	MAJOR	300-500	06+		EMER-A	

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 5)**

**Federal Operating Permit Program
Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines**

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	N/A

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Operating Hours	Different Schedule	Emission Limitation	Displacement
(P) G-1	63ZZZZ-PG1			NO	REDCO	
(P) G-2	63ZZZZ-PG2			NO	REDCO	

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 6)**

**Federal Operating Permit Program
Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary
Reciprocating Internal Combustion Engines**

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	Crankcase	Performance Test	Control Technique	Operating Limits	Monitoring System
(P) G-1	63ZZZZ-PG1	NO	NO	OTHER2	NO	OTHER
(P) G-2	63ZZZZ-PG2	NO	NO	OTHER2	NO	OTHER

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 7)**

Federal Operating Permit Program

**Table 3: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E: Multi-Region Combustion Control**

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Unit Type	Horsepower Rating	Landfill	Control Operations	NO _x and O ₂ Monitoring	Ammonia Use	NH ₃ Emission Limitation	Ammonia Monitoring

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 8)**

Federal Operating Permit Program

Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subchapter JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Construction/ Reconstruction/ Modification Date	Test Cell	Exemption	Temp Replacement	Horsepower	Fuel	AEL No.	Lean Burn	Commencing

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 9)**

Federal Operating Permit Program

Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subchapter JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Manufacture Date	Displacement	Certified	Operation	Certified Modification	Service	Severe Duty	Optional Compliance

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 10)**

Federal Operating Permit Program

Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
(P) G-1	60IIII-PG1	2005+	NONE	NON	CON	0406+
(P) G-2	60IIII-PG2	2005+	NONE	NON	CON	0406+
(P) C-1	60IIII-PC1	2005+	NONE	NON	CON	0406+
(P) FWP-1	60IIII-PFWP	2005+	NONE	FIRE	CON	0706+

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 11)**

Federal Operating Permit Program

Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
(P) G-1	60IIII-PG1	DIESEL		10-	YES	2007	
(P) G-2	60IIII-PG2	DIESEL		10-	YES	2007	
(P) C-1	60IIII-PC1	DIESEL		10-	NO	2007	
(P) FWP-1	60IIII-PFWP	DIESEL		10-		2008	

**Texas Commission on Environmental Quality
Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 12)**

Federal Operating Permit Program

Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	Kilowatts	Filter	Standards	Compliance Option	PM Compliance	Options
(P) G-1	60IIII-PG1	N560-900	NO		MANU YES		
(P) G-2	60IIII-PG2	N560-900	NO		MANU YES		
(P) C-1	60IIII-PC1	N130-368	NO		MANU YES		
(P) FWP-1	60IIII-PFWP	F130-368		NO	MDATA		

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 1)
Federal Operating Permit Program
Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart K: Standards of Performance for Storage Vessels for Petroleum Liquids

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Construction/Modification Date	Storage Capacity	Product Stored	True Vapor Pressure	Storage Vessel Description	Reid Vapor Pressure	Maximum TVP	Estimated TVP	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 2)
Federal Operating Permit Program
Table 2: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Ka: Standards of Performance for Storage Vessels for Petroleum Liquids

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	True Vapor Pressure	Storage Vessel Description	AMEL ID No.	Reid Vapor Pressure	Maximum TVP	Estimated TVP	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)

Date:	2/19/2020
Permit No.:	TBA
Regulated Entity No.:	NA

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	Maximum TVP	Storage Vessel Description	AMEL ID No.	Reid Vapor Pressure	Control Device ID No.
(P) DT-1	60KB-PDT1	PTLQ-3	20K-40K	2.2-				

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 5)
Federal Operating Permit Program
Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 6)
Federal Operating Permit Program
Table 5: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart R: National Emission Standards for Gasoline Distribution
Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Storage Capacity	Alternate Means of Emission Limitation	AMEL ID No.	Storage Vessel Description	AMOC ID No.	Control Device ID No.	Subject to NSPS Kb	EFR Not Meeting Rim Seal Requirements

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 7)
Federal Operating Permit Program
Table 6: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart Y: National Emission Standards for Benzene Emissions from Benzene Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Tank Type	Storage Capacity	Stringency	Alternate Means of Emission Limitation	AMEL ID No.	Tank Description	Control Device Type	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 8)
Federal Operating Permit Program
Table 7: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart OO: National Emission Standards for Tanks - Level 1

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Subject to 40 CFR Part 60, 61, or 63	Closed vent System and Control Device	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 9)
Federal Operating Permit Program
Table 8a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DD: National Emission Standards for Hazardous Air Pollutants from
Off-Site Waste and Recovery Operations

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Subject to Another Subpart of 40 CFR Part 61 or 63	HAP < 1 MG Per Year	Numerical Concentration Limits	Treated Organic Hazardous Constituents	Air Emission Controls	Direct Measurement	Biological Treatment	Efficiency ≥ 95%

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page10)
Federal Operating Permit Program
Table 8b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DD: National Emission Standards for Hazardous Air Pollutants from
Off-Site Waste and Recovery Operations

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Bulk Feed	Existing Source	Tank Emissions Control	Level 2 Controls	Closed Vent System	Tank Type	Inspected and Monitored	Bypass Device	Flow Meter	Design Analysis

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 11)
Federal Operating Permit Program
Table 8c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DD: National Emission Standards for Hazardous Air Pollutants from
Off-Site Waste and Recovery Operations

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	No Detectable Organic Emissions	Control Device Type	Control Device ID No.	Alternative Operating Parameters	AOP ID No.	HAP Recovery	Regenerable Carbon Adsorber	Complying with §63.693(d)(4)(iii)	Exhaust Stream Temp Monitor

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 12)
Federal Operating Permit Program
Table 8d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DD: National Emission Standards for Hazardous Air Pollutants from
Off-Site Waste and Recovery Operations

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	HAP Destruction	Organic Monitoring Device	Meets 40 CFR §63.693(f)(1)(iii)	95% HAP Destruction	BPH TOC Destruction	95% TOC Destruction	Meets 40 CFR §63.693(g)(1)(iii)	Introduced with Fuel	Continuous Temperature Monitoring System

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 13)
Federal Operating Permit Program
Table 9a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
the Synthetic Organic Chemical Manufacturing Industry for Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	MACT Subpart F/G Applicability	NESHAP Subpart Y Applicability	NSPS Subpart Kb Applicability	Maximum TVP	Emission Control Type	AMOC ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 14)
Federal Operating Permit Program
Table 9b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
the Synthetic Organic Chemical Manufacturing Industry for Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Seal Type	Closed Vent System	Hard Piping	Bypass Lines	Control Device Type	Control Device ID No.	Control Device Design	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 15)
Federal Operating Permit Program
Table 10a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Specified in 40 CFR § 63.640(g)(1)-(6)	Subject to 40 CFR Part 63, Subparts F, G, H, or I	Existing Kb Source	Group 1 Storage Vessel	Applicability	Storage Vessel Description	Reid Vapor Pressure	Estimated TVP

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 16)
Federal Operating Permit Program
Table 10b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Product Stored	Storage Capacity	Maximum TVP	Storage Vessel Description	Reid Vapor Pressure	Estimated Maximum TVP

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 17)
Federal Operating Permit Program
Table 10c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Existing Source	True Vapor Pressure	Emission Control Type	AMOC ID No.	Seal Type

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 18)
Federal Operating Permit Program
Table 10d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Hard Piping	Bypass Lines	Control Device Type	Control Device ID No.	Control Device Design	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 19)
Federal Operating Permit Program
Table 11a: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart L: National Emission Standards for Benzene from Coke By-Product Recovery Plants

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Initial Startup Date	Alternate Means of Emission Limitation	AMEL ID No.	Furnace or Foundry

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 20)
Federal Operating Permit Program
Table 11b: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart L: National Emission Standards for Benzene from Coke By-Product Recovery Plants

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Title 40 CFR § 61.132(a)(2)(i) Devices	Open to Atmosphere	Alternative Control Device	Control Device ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 21)
Federal Operating Permit Program
Table 12a: Title 40 Code of Federal Regulations Part 61, (40 CFR Part 61)
Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Waste Treatment Tank	Alternative Standards for Tanks	Kb Tank Type	AMEL ID No.	Seal Type	Alternate Means of Compliance	AMOC ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 22)
Federal Operating Permit Program
Table 12b: Title 40 Code of Federal Regulations Part 61, (40 CFR Part 61)
Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Tank Control Requirements	Fuel Gas System	Closed Vent System And Control Device	Cover and Closed Vent	Closed Vent System And Control Device AMOC	CVS/CD AMOC ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 23)
Federal Operating Permit Program
Table 12c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)
Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Bypass Line	Bypass Line Valve	Control Device Type/Operation	Control Device ID No.	Engineering Calculations	Alternate Monitoring Parameters	Carbon Replacement Interval

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 24)
Federal Operating Permit Program
Table 13a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart QQQ: Standards of Performance for VOC Emissions from
Petroleum Refinery Wastewater Systems

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Construction/ Modification Date	Alternate Means of Emission Limitation	AMEL ID No.	Alternative Standard	Subject to 40 CFR Part 60, Subpart K, Ka, or Kb

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 25)
Federal Operating Permit Program
Table 13b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart QQQ: Standards of Performance for VOC Emissions from
Petroleum Refinery Wastewater Systems

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Control Device Type	Control Device ID No.	Alternative Monitoring	Regenerate On-site

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 26)
Federal Operating Permit Program
Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
Synthetic Organic Chemical Manufacturing Industry Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Process Wastewater	Meets 40 CFR § 63.149(d)	Sparged	Emission Routing	Installed Before 12/31/92

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 27)
Federal Operating Permit Program
Table 14b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
Synthetic Organic Chemical Manufacturing Industry Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Bypass Lines	Control Device Type	Control Device ID No.	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 28)
Federal Operating Permit Program
Table 14c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
Synthetic Organic Chemical Manufacturing Industry Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Wastewater Tank Usage	Wastewater Tank Properties	Emission Control Type	EEL ID No.	New Source

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 29)
Federal Operating Permit Program
Table 14d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
Synthetic Organic Chemical Manufacturing Industry Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Negative Pressure	Closed Vent System	Bypass Lines	Combination of Control Devices	Control Device Type	Control Device ID No.	Compliance with 40 CFR §63.139(c)(1)	Alternate Monitoring Parameters	AMP ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 30)
Federal Operating Permit Program
Table 14e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from
Synthetic Organic Chemical Manufacturing Industry Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Regenerate On-site	Performance Test	95% Reduction Efficiency	Monitoring Options	Continuous Monitoring	Continuous Monitoring Alternative ID No.

**Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 31)
Federal Operating Permit Program
Table 15a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

This Table has been removed from the form.

**Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 32)
Federal Operating Permit Program
Table 15b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

This Table has been removed from the form.

**Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 33)
Federal Operating Permit Program
Table 15c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

This Table has been removed from the form.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 34)
Federal Operating Permit Program
Table 16a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart HH: National Emission Standards for Hazardous Air Pollutants from
Oil and Natural Gas Production Facilities

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Alternate Means of Emission Limitation (AMEL)	AMEL ID No.	Subject to Another Regulation	Vessel Type	Bypass Device	Flow Indicator	Unsafe to Inspect

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 35)
Federal Operating Permit Program
Table 16b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart HH: National Emission Standards for Hazardous Air Pollutants from
Oil and Natural Gas Production Facilities

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP/GOP Index No.	Difficult to Inspect	Sealed Closed Vent System	Control Device Type	Control Device ID No.	Control Device Operation	Performance Test/Design Analysis Exemption	Performance Test or Design Analysis

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 36)
Federal Operating Permit Program
Table 17a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Vessel Type	Group 1 Vessel	Maximum TVP	Emission Control Type	AMOC ID No.	Seal Type

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 37)
Federal Operating Permit Program
Table 17b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Hard Piping	Bypass Lines	Control Device Type	Control Device ID No.	Control Device Design	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 38)
Federal Operating Permit Program
Table 18a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Process Wastewater	Meets 40 CFR § 63.149(d)	Sparged	Emission Routing	Installed Before 6/12/95

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 39)
Federal Operating Permit Program
Table 18b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Bypass Lines	Control Device Type	Control Device ID No.	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 40)
Federal Operating Permit Program
Table 18c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Wastewater Tank Usage	Wastewater Tank Properties	Emission Control Type	EEL ID No.	Closed Vent System	Bypass Lines

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 41)
Federal Operating Permit Program
Table 18d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Combination of Control Devices	Control Device Type	Control Device ID No.	Compliance with 40 CFR § 63.139(c)(1)	Alternate Monitoring Parameters	AMP ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 42)
Federal Operating Permit Program
Table 18e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:
Group I Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Regenerate On-site	Performance Test	95% Reduction Efficiency	Monitoring Options	Alternate Monitoring System	Alternate Monitoring ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 43)
Federal Operating Permit Program
Table 19a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Vessel Type	Group 1 Vessel	Alternative Means of Control	AMOC ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 44)
Federal Operating Permit Program
Table 19b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Construction/ Modification Date	TPPU Product	Storage Vessel Capacity	Vapor Pressure	Maximum HAP TVP	Emission Control Type	Seal Type

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 45)
Federal Operating Permit Program
Table 19c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Hard Piping	Bypass Lines	Control Device Type	Control Device ID No.	Control Device Design	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 46)
Federal Operating Permit Program
Table 20a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Process Wastewater	Meets 40 CFR § 63.149(d)	Sparged	Emission Routing	Installed Before 3/29/95

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 47)
Federal Operating Permit Program
Table 20b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Bypass Lines	Control Device Type	Control Device ID No.	Design Evaluation Submitted

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 48)
Federal Operating Permit Program
Table 20c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Wastewater Tank Usage	Wastewater Tank Properties	Emission Control Type	EEL ID No.	Closed Vent System	Bypass Lines

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 49)
Federal Operating Permit Program
Table 20d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Combination of Control Devices	Control Device Type	Control Device ID No.	Compliance with 40 CFR § 63.139(c)(1)	Alternate Monitoring Parameters	AMP ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 50)
Federal Operating Permit Program
Table 20e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions:
Group IV Polymers and Resins, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Regenerate On-site	Performance Test	95% Reduction Efficiency	Monitoring Options	Alternate Monitoring System	Alternate Monitoring ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 51)
Federal Operating Permit Program
Table 21a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Emission Standard	Comb Device	95% Scrubber	PERF Test	Negative Pressure	Bypass Line

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 52)
Federal Operating Permit Program
Table 21b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Barge	Offsite	Other Part 63

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 53)
Federal Operating Permit Program
Table 21c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Designated HAL	Determined HAL	Prior Eval	Assessment Waiver	Negative Pressure	Bypass Line

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 54)
Federal Operating Permit Program
Table 21d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	WW Tank Control	Notification	Unslotted Guide Pole	Wiper or Seal	Seal Configuration	Inspection Requirement

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 55)
Federal Operating Permit Program
Table 21e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Alt 63SS Mon Parameters	CEMS	SS Device Type	Meets 63.988(b)(2)	Water	Designated HAL

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 56)
Federal Operating Permit Program
Table 21f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Storage Vessels

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Determined HAL	HAL Device Type	Prior Test	Test Waiver	Formaldehyde	Negative Pressure	Bypass Line

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 57)
Federal Operating Permit Program
Table 22a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Process Wastewater	Meets 40 CFR § 63.149(d)	Sparged	Emission Routing	Installed Before 12/31/92

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 58)
Federal Operating Permit Program
Table 22b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Closed Vent System	Bypass Lines	Control Device Type	Control Device ID No.	Design Evaluation Submitted	Halogenated	Halogen Reduction

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 59)
Federal Operating Permit Program
Table 22c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Wastewater Tank Usage	Wastewater Tank Properties	Emission Control Type	EEL ID No.	Closed Vent System	Bypass Lines

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 60)
Federal Operating Permit Program
Table 22d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Combination of Control Devices	Control Devices	Control Device ID No.	Compliance With 40 CFR §63.139(c)(1)	Halogenated	Halogen Reduction	Alt 63G Mon Parameters	AMP ID No.

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 61)
Federal Operating Permit Program
Table 22e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:
Miscellaneous Organic Chemical Manufacturing, Wastewater

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Regeneration	Performance Tests	2485(h)(3)	95% Performance Tests	Monitoring Options

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 62)
Federal Operating Permit Program
Table 23a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CCCCCC: National Emission Standards for Organic Hazardous Air Pollutants for Source Category:
Gasoline Dispensing Facilities

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Monthly Throughput	Capacity	Fill Pipe	Installed	Submerged Fill

Texas Commission on Environmental Quality
Storage Tank/Vessel Attributes
Form OP-UA3 (Page 63)
Federal Operating Permit Program
Table 23b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart CCCCCC: National Emission Standards for Organic Hazardous Air Pollutants for Source Category:
Gasoline Dispensing Facilities

Date:	
Permit No.:	
Regulated Entity No.:	

Unit ID No.	SOP Index No.	Floating Roof	Constructed	GDF Compliance	Vapor Balance	Leak Rate	Static Pressure

Appendix E
Part 71 Forms (Includes Certification of Compliance)

**Federal Operating Permit Program (40 CFR Part 71)
GENERAL INFORMATION AND SUMMARY (GIS)**

A. Mailing Address and Contact Information

Facility name: Texas GulfLink, LLC

Mailing address: Street or P.O. Box: 8333 Douglas Ave., Ste. 400

City: Dallas State: TX ZIP: 75225

Contact person: Mr. Jeff Ballard Title President and CEO

Telephone (214) 712 - 2140 Ext. _____

Facsimile (_____) _____ - _____

B. Facility Location

Temporary source? ☐ Yes ☒ No Plant site location: The site is approximately 28.3 nautical miles off the coast of Brazoria County, Texas.

City: N/A State: N/A County: N/A EPA Region: 6

Is the facility located within:

Indian lands? ☐ YES ☒ NO An offshore source in federal waters? ☒ YES ☐ NO

Non-attainment area? ☐ YES ☒ NO If yes, for what air pollutants? _____

Within 50 miles of affected State? ☒ YES ☐ NO If yes, What State(s)? Texas

C. Owner

Name: Texas GulfLink, LLC Street/P.O. Box: 8333 Douglas Ave., Ste. 400

City Dallas State: TX ZIP: 75225

Telephone Ext _____

D. Operator

Name: Texas GulfLink, LLC Street/P.O. Box: 8333 Douglas Ave., Ste. 400

City: Dallas State: TX ZIP: 75225

Telephone Ext _____

E. Application Type

Mark only one permit application type and answer the supplementary question appropriate for the type marked.

☒ Initial Permit ☐ Renewal ☐ Significant Mod ☐ Minor Permit Mod(MPM)

☐ Group Processing, MPM ☐ Administrative Amendment

For initial permits, when did operations commence? Not yet in operation; startup in 2022

For permit renewal, what is the expiration date of current permit? ____/____/____

F. Applicable Requirement Summary

Mark the types of applicable requirements that apply:

☐ SIP ☐ FIP/TIP ☒ PSD ☐ Non-attainment NSR

☐ Minor source NSR ☒ Section 111 ☐ Phase I acid rain ☐ Phase II acid rain

☐ Stratospheric ozone ☐ OCS regulations ☒ NESHAP ☒ Sec. 112(d) MACT

☒ Sec. 112(g) MACT ☐ Early reduction of HAP ☒ Sec 112(j) MACT ☐ RMP [Sec.112(r)]

☐ Section 129 ☐ NAAQS, increments or visibility but for temporary sources (This is rare)

Is the source subject to the Deepwater Port Act? ☒ YES ☐ NO

Has a risk management plan been registered? ☐ YES ☒ NO Agency: _____

Phase II acid rain application submitted? ☐ YES ☒ NO If YES, Permitting Authority: _____

G. Source-Wide PTE Restrictions and Generic Applicable Requirements

Cite and describe any emissions-limiting requirements and/or facility-wide "generic" applicable requirements.

Please see Sections 4.0 (Regulatory Applicability) and 5.0 (Federal BACT) of the Title V application.

H. Process Description

List processes, products, and SIC codes for the facility.

Process	Products	SIC
Marine Loading	Crude Oil	4612

I. Emission Unit Identification

Assign an emissions unit ID and describe each emissions unit at the facility. Control equipment and/or alternative operating scenarios associated with emissions units should be listed on a separate line. Applicants may exclude from this list any insignificant emissions units or activities.

Emissions Unit ID	Description of Unit
(P) M-1	Marine loading
(P) G-1	Electric generator #1 engine
(P) G-2	Electric generator #2 engine
(P) C-1	Portal crane engine
(P) DT-1	Day tank storing diesel fuel (fixed roof)
(P) BT-1	Belly Tank #1
(P) BT-2	Belly Tank #2
(P) BT-3	Belly Tank #3
(P) BT-4	Belly Tank #4
(P) T-1	Crude oil surge tank (fixed roof)
(P) FWP-1	Diesel-fired emergency firewater pump engine (<i>MSS activity</i>)
(P) P-1	Pipeline pigging operations (<i>MSS activity</i>)
(P) F-1	Fugitives from platform piping component leaks
(P) F-2	Fugitives from SPM piping component leaks
(P) S-1	Crude oil sampling activities
(P) PM-1	Routine pump maintenance (<i>MSS activity</i>)
(P) MSS-1	Painting/abrasive blasting (<i>MSS activity</i>)

J. Facility Emissions Summary

Enter potential to emit (PTE) for the facility as a whole for each regulated air pollutant listed below. Enter the name of the single HAP emitted in the greatest amount and its PTE. For all pollutants, stipulations to major source status may be indicated by entering "major" in the space for PTE. Indicate the total actual emissions for fee purposes for the facility in the space provided. Applications for permit modifications need not include actual emissions information.

NOx 98.33 tons/yr (Major) VOC 9,685.53 tons/yr (Major) SO₂ 0.13 tons/yr (Minor)

PM₁₀ or PM_{2.5} 3.47 tons/yr (Minor) CO 59.60 tons/yr (Minor) Lead 0 tons/yr (Minor)

Total HAP > 10/25 tons/yr (Major)

Single HAP with greatest amount n-Hexane PTE 221.04 tons/yr

Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE 0 tons/yr

K. Existing Federally-Enforceable Permits

Permit number(s): N/A Permit type _____ Permitting authority _____

Permit number(s): N/A Permit type _____ Permitting authority _____

L. Emission Unit(s) Covered by General Permits

Emission unit(s) subject to general permit: N/A

Check one: _____ Application made: _____ Coverage granted:

General permit identifier: _____ Expiration Date: ____/____/____

M. Cross-referenced Information

Does this application cross-reference information? ☐ YES ☒ NO (If yes, see instructions)

INSTRUCTIONS FOLLOW

INSTRUCTIONS FOR GIS, GENERAL INFORMATION AND SUMMARY

Use this form to provide general and summary information about the part 71 source (facility or plant) and to indicate the permitting action requested. Submit this form once for each part 71 source. Several sections of this form ask for information you may not know until you complete other part 71 forms.

Section A - Enter the facility's official or legal name. The contact person should be a person familiar with the day-to-day operation of the facility, such as a plant site manager or similar individual.

Section B – If different from the mailing address, include the plant site location.

Sections C and D - If more than one owner or operator, list them on an attachment.

Section E - Mark initial permit issuance if you are applying for the first time. For all types of permit revisions, applicants must provide a brief narrative description of the changes.

Section F - Indicate the broad categories of applicable requirements that apply to the facility or any emissions units. Note that acid rain requirements must be included in part 71 permits the same as other requirements. Also, see definition of "applicable requirement" in part 71. Offshore sources in Federal waters may be either Outer Continental shelf (OCS) sources or Deepwater Port Act (DPA) sources, but not both. The DPA is not an applicable requirement, but the EPA needs to know if such requirements apply because the EPA coordinates with other Federal agencies on such projects.

Section G – List emission-limiting requirements that apply to the facility as a whole, such as restrictions on potential to emit or applicable requirements that apply identically to all emission units at a facility.

Section H - List, in descending order of priority, the 4-digit standard industrial classification (SIC) code(s) that best describes your facility in terms of its principal products or processes, and provide a brief narrative description for each classification. For a listing of SIC codes, see the Standard Industrial Classification Manual, 1987 edition, prepared by the Executive Office of the President, Office of Management and Budget, from the Government Printing Office, Washington DC.

Section I - Assign a unique identifier (unit ID) under the "emissions unit ID" column and provide a text description for each significant emissions unit at facility. These IDs will be used in other part 71 forms. A "significant emissions unit" is any unit that is not an insignificant emission unit or activities. Note that unit IDs need only be assigned if they will be referenced in subsequent portions of the application. You may choose any numbering system you wish to assign unit IDs. If a unit ID was previously assigned, use the original ID. If the unit is a new unit, assign a unit ID consistent with the existing units' IDs.

You may group emissions units, activities, or pieces of equipment together and assign a single unique unit ID when they are subject to the same applicable requirement(s) and will have the same monitoring, record keeping, and reporting requirements in the permit.

In addition, assign a unit ID for each alternative operating scenario and each piece of pollution control equipment. When possible, assign these numbers to show with which emissions units or processes these scenarios or control devices are associated.

Section J – Enter the facility-wide PTE for each listed air pollutant for applicability purposes and enter the facility-wide actual emissions of all pollutants that count for fee purposes. Applications for permit revisions should report PTE after the change for the emissions units affected by the change.

Completion of form **PTE** is recommended prior to the entry of PTE information in this section.

"NOx" is for nitrogen oxides,

"VOC" is for volatile organic compounds,

"SO₂" is for sulfur dioxide,

"PM₁₀" is for particulate matter with an aerodynamic diameter of 10 micrometers or less,

"CO" is for carbon monoxide, and

"Lead" is for elemental lead regulated by a NAAQS ("compounds of lead" are HAP).

Note that the emissions of greenhouse gasses (GHGs) are not counted for major source applicability purposes or for part 71 fee purposes, so no need to enter them anywhere on this form.

Note that a source may be major for a single HAP or any combination of HAP.

Include fugitive emissions when reporting PTE to the extent that they count toward major source applicability. All fugitive emissions of HAP count toward major source applicability.

Sources may also stipulate to major source status for the pollutants indicated on the form by entering "Major" in the space provided for PTE values.

You may use the value for actual emissions from section F, line 5, of form **FEE**. When totaling actual emissions for fee purposes, include all emissions, including fugitive emissions, regardless of whether they count for applicability purposes.

Section L - If any emissions unit within your facility is applying, has applied, or currently has a general permit, identify the emissions unit ID and name of the unit, consistent with section I of this form.

Section M - Attach copies of any cross-referenced documents that are not publicly available or otherwise available to the permitting authority.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) C-1 Description Portal Crane

SIC Code (4-digit) 3533 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected

Primary use Loading Temporary Source ☐ Yes ☒ No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date ____/____/____

Boiler Type: N/A ☐ Industrial boiler ☐ Process burner ☐ Electric utility boiler

Other (describe) _____

Boiler horsepower rating _____ Boiler steam flow (lb/hr) _____

Type of Fuel-Burning Equipment (coal burning only): N/A

☐ Hand fired ☐ Spreader stoker ☐ Underfeed stoker ☐ Overfeed stoker

☐ Traveling grate ☐ Shaking grate ☐ Pulverized, wet bed ☐ Pulverized, dry bed

Actual Heat Input _____ MM BTU/hr Max. Design Heat Input _____ MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	0.0015	0.01	139,000 BTU / gal.

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		22.1 gal.	193,476.3 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type _____

Air pollutant(s) Controlled _____ Manufacturer _____

Model No. _____ Serial No. _____

Installation date ____/____/____ Control efficiency (%) _____

Efficiency estimation method _____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (°F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

INSTRUCTIONS FOR EUD-1 EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form is to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) FWP-1 Description Emergency Firewater Pump

SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Water supply in emergency cases Temporary Source ☐ Yes ☒ No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date ____/____/____

Boiler Type: N/A ☐ Industrial boiler ☐ Process burner ☐ Electric utility boiler
Other (describe) _____

Boiler horsepower rating _____ Boiler steam flow (lb/hr) _____

Type of Fuel-Burning Equipment (coal burning only): N/A

☐ Hand fired ☐ Spreader stoker ☐ Underfeed stoker ☐ Overfeed stoker

☐ Traveling grate ☐ Shaking grate ☐ Pulverized, wet bed ☐ Pulverized, dry bed

Actual Heat Input _____ MM BTU/hr Max. Design Heat Input _____ MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	0.0015	0.01	139,000 BTU / gal.

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		17.63 gal.	1.763 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type _____

Air pollutant(s) Controlled _____ Manufacturer _____

Model No. _____ Serial No. _____

Installation date ____/____/____ Control efficiency (%) _____

Efficiency estimation method _____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (°F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

INSTRUCTIONS FOR EUD-1 EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) G-1 Description Generator (non-emergency)

SIC Code (4-digit) 3621 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Supply electricity to the platform. Temporary Source ☐ Yes ☒ No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date ____/____/____

Boiler Type: N/A ☐ Industrial boiler ☐ Process burner ☐ Electric utility boiler

Other (describe) _____

Boiler horsepower rating _____ Boiler steam flow (lb/hr) _____

Type of Fuel-Burning Equipment (coal burning only): N/A

☐ Hand fired ☐ Spreader stoker ☐ Underfeed stoker ☐ Overfeed stoker

☐ Traveling grate ☐ Shaking grate ☐ Pulverized, wet bed ☐ Pulverized, dry bed

Actual Heat Input _____ MM BTU/hr Max. Design Heat Input _____ MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type _____

Air pollutant(s) Controlled _____ Manufacturer _____

Model No. _____ Serial No. _____

Installation date ____/____/____ Control efficiency (%) _____

Efficiency estimation method _____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (°F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

INSTRUCTIONS FOR EUD-1 EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID (P) G-2 Description Generator (non-emergency)

SIC Code (4-digit) 3621 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Primary use Supply electricity to the platform. Temporary Source ☐ Yes ☒ No

Manufacturer _____ Model No. _____

Serial Number _____ Installation Date ____/____/____

Boiler Type: N/A ☐ Industrial boiler ☐ Process burner ☐ Electric utility boiler

Other (describe) _____

Boiler horsepower rating _____ Boiler steam flow (lb/hr) _____

Type of Fuel-Burning Equipment (coal burning only): N/A

☐ Hand fired ☐ Spreader stoker ☐ Underfeed stoker ☐ Overfeed stoker

☐ Traveling grate ☐ Shaking grate ☐ Pulverized, wet bed ☐ Pulverized, dry bed

Actual Heat Input _____ MM BTU/hr Max. Design Heat Input _____ MM BTU/hr

C. Fuel Data

Primary fuel type(s) No. 2 Standby fuel type(s) N/A

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
No. 2	.0015	.01	139,000 BTU / gallon

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
No. 2		26.69 gal.	233,810 gal.

E. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device type _____

Air pollutant(s) Controlled _____ Manufacturer _____

Model No. _____ Serial No. _____

Installation date ____/____/____ Control efficiency (%) _____

Efficiency estimation method _____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (°F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

INSTRUCTIONS FOR EUD-1 EMISSIONS UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES

Use this form to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generators and the like.

Section A – The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. Enter the source classification code (SCC), if known or readily available (not mandatory).

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would be critical to identifying the emissions unit and its applicable requirements.

Section C - Describe the primary fuel type is that used during the majority of its operating hours. Your fuel supplier should be able to provide the information requested here. If the supplier provides a range of values, use the highest or worst-case value. Identify and describe any associated air pollution control device. If data provided by the vendor, attach documentation (if available); if other basis, indicate how determined (e.g., AP-42).

Section D - Actual fuel usage will be used to calculate actual emissions for purposes of calculating fees. Maximum usage will be used to calculate PTE. If your fuel is a combination of several fuel types, indicate the average percentage of each fuel on an hourly and yearly basis in the appropriate column or on an attachment. The basis of this fuels usage data must be explained on an attachment. For example, actual fuel consumption could be established from purchase records or records of fuel consumption over the preceding calendar year or for sources that have not yet operated for a full year, from estimations of actual usage.

Section E - Identify and describe any associated air pollution control device for the unit described above. For control efficiency, you may need to contact the vendor, if so, attach copies of correspondence from the vendor documenting these values, if available, or indicate how these values were otherwise determined.

Section F - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-1 Description "Belly" fuel tank connected to Generator #1 (diesel)
SIC Code (4-digit) 3621 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes XNo
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) BT-2 Description "Belly" fuel tank connected to Generator #2 (diesel)
SIC Code (4-digit) 3621 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ____ Yes X No
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)**EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)****A. General Information**

Emissions unit ID (P) BT-3 Description "Belly" fuel tank connected to Portal Crane (diesel)
SIC Code (4-digit) 3533 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes XNo
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)**A. General Information**

Emissions unit ID (P) BT-4 Description "Belly" fuel tank connected to Firewater Pump (diesel)
SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ____Yes ☒No
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) DT-1 Description Diesel Storage Tank #1
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type Vertical fixed roof diesel fuel tank. Temporary source: ___Yes XNo

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying
method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____

Manufacturer _____ Model No _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) M-1 Description Marine Loading

SIC Code (4-digit) 4612 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes XNo

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type BMP – Submerged fill loading into VLCC complying with VOC Management Plan

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed, or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)**A. General Information**

Emissions unit ID (P) MSS-1 Description MSS emissions due to miscellaneous abrasive blasting/painting on the platform
SIC Code (4-digit) 8999 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ____Yes ☒No
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) F-1 Description Platform Fugitive Emissions

SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes XNo

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying
method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____

Manufacturer _____ Model No _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)**EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)****A. General Information**

Emissions unit ID (P) PM-1 Description Pump Maintenance (MSS activity)
SIC Code (4-digit) 3561 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet classified.

Equipment type _____ Temporary source: ____Yes ☒ No
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/_____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying
method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/_____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) P-1 Description Pigging Operations (MSS activity)
SIC Code (4-digit) 1389 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type _____ Temporary source: ___Yes XNo

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____

Manufacturer _____ Model No _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)**EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)****A. General Information**Emissions unit ID (P) S-1 Description Sampling ActivitiesSIC Code (4-digit) 1389 SCC Code N/A**B. Emissions Unit Description – Specific equipment not yet selected.**Equipment type _____ Temporary source: ___Yes XNo

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control EquipmentEmissions unit ID N/A Device Type _____

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)**EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)****A. General Information**Emissions unit ID (P) F-2 Description SPM System FugitivesSIC Code (4-digit) 1389 SCC Code N/A**B. Emissions Unit Description – Specific equipment not yet selected.**Equipment type _____ Temporary source: ___Yes ☒ No

Manufacturer _____ Model No. _____

Serial No. _____ Installation date ____/____/____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method _____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control EquipmentEmissions unit ID N/A Device Type _____

Manufacturer _____ Model No _____

Serial No. _____ Installation date ____/____/____

Control efficiency (%) _____ Capture efficiency (%) _____

Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____

Stack temp (F) _____ Design stack flow rate (ACFM) _____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID (P) T-1 Description Crude oil surge tank (fixed roof)
SIC Code (4-digit) 4226 SCC Code N/A

B. Emissions Unit Description – Specific equipment not yet selected.

Equipment type Surge Tank Temporary source: ___ Yes X No
Manufacturer _____ Model No. _____
Serial No. _____ Installation date ____/____/____
Articles being coated or degreased _____
Application method _____
Overspray (surface coating) (%) _____ Drying method _____
No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID N/A Device Type _____
Manufacturer _____ Model No _____
Serial No. _____ Installation date ____/____/____
Control efficiency (%) _____ Capture efficiency (%) _____
Air pollutant(s) controlled _____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____ Inside stack diameter (ft) _____
Stack temp (F) _____ Design stack flow rate (ACFM) _____
Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____

E. VOC-containing Substance Data – N/A

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)

INSTRUCTIONS FOR EUD-2 EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES

Use this form to describe emissions units that use, process, store or produce substances containing VOC and that primarily emit VOC, such as painting or coating operations and printers.

In addition, this form may also be useful for certain HAP emitting sources. The purpose of this form is to help you collect and organize technical data, including operational characteristics, applicable requirements, compliance terms, and emissions.

Section A - The emissions unit ID should be consistent with the one used in section I of form **GIS**. Enter the four-digit SIC code for the unit, which may be different from that used to describe the facility as a whole. In addition, enter the Source Classification Code (SCC), if known or available, but this is not mandatory.

Section B - There may be other information that the permitting authority will need to know that is not specifically requested on the forms and that should be included on attachments. Such information would include information needed to adequately identify the emissions unit and to determine its applicable requirements.

Section C - Identify and describe any associated air pollution control device for the unit described above. If data (such as control efficiency) provided by the vendor, attach documentation (if available); If other basis, indicate how determined (e.g., AP-42).

Section D - Complete this section only if ambient impact assessment is an applicable requirement or the facility is a temporary source. This is not common.

Section E - VOC content and usage values are typically used to calculate emissions. Actual usage will be multiplied by VOC content to calculate actual emissions, while maximum usage will be multiplied by VOC content to calculate PTE. Explain the basis for the usage and VOC content values on an attachment (e.g., material safety data sheet or MSDS). Also, EPA Reference Method 24 of 40 CFR Part 60, Appendix A, can also be used to determine VOC content but this is not required solely for these application purposes. When VOC Content is determined through testing or calculation by the applicant, the applicant must attach test data and calculations.

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) MSS-1 – Misc. abrasive blasting/painting \(MSS activity\)](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.06	0.26	
PM _{2.5}	N/A	0.002	0.01	
PM ₁₀	N/A	0.01	0.06	
HAPs	N/A	0.0	0.0	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) BT-1, BT-2, BT-3, BT-4](#) [“Belly” fuel tanks connected to diesel engines](#)

B. Identification and Quantification of Emissions [Emission rates shown are for all 4 tanks](#)

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.0005	0.002	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) C-1- Crane #1](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.21	0.92	
SO ₂	N/A	0.01	0.02	
CO	N/A	2.45	10.71	
NOx	N/A	2.59	11.32	
PM ₁₀	N/A	0.14	0.61	
PM _{2.5}	N/A	0.14	0.61	
HAPs	N/A	0.004	0.02	
CO ₂ e	N/A	485	2,132	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) DT-1 - Day Tank #1 storing diesel fuel \(fixed roof\)](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.001	0.01	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) FWP-1 – Firewater Pump #1](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.18	0.01	
CO	N/A	2.01	0.10	
NOx	N/A	2.12	0.11	
SO ₂	N/A	0.0	0.0	
PM _{2.5}	N/A	0.12	0.01	
PM ₁₀	N/A	0.12	0.01	
HAPs	N/A	0.0	0.0	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) G-1, \(P\) G-2 – Diesel Electric Generator \(2 Units\)](#)

B. Identification and Quantification of Emissions – [Emission rates shown are for both units.](#)

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.53	2.32	
SO ₂	N/A	0.02	0.10	
CO	N/A	11.14	48.79	
NOx	N/A	19.84	86.90	
PM ₁₀	N/A	0.64	2.79	
PM _{2.5}	N/A	0.64	2.79	
HAPs	N/A	0.02	0.08	
CO ₂ e	N/A	9,712	8,813	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) M-1 - Marine Loading](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC		4,709.72	9,679.15	
H ₂ S		0.12	0.05	
Benzene		20.78	42.70	
Isopropyl benzene		0.16	0.33	
Ethylbenzene		1.39	2.86	
Hexane(-n)		107.53	220.99	
2,2,4-Trimethylpentane (isooctane)		1.79	3.67	
Toluene		10.17	20.90	
Xylene (-m)		4.08	8.38	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) P-1 – Pigging Operations \(MSS activity\)](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	83.76	0.50	
HAPs	N/A	2.46	0.01	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) F-1 – Platform Fugitive Emissions](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.03	0.12	
HAPs	N/A	0.0009	0.006	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) PM-1 – Pump Maintenance \(MSS activity\)](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	4.0	0.002	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) S-1 – Sampling Activities](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.10	0.05	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) F-2 – SPM Fugitive Emissions](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.10	0.44	
HAPs	N/A	0.00	0.00	

INSTRUCTIONS FOR EMISSION CALCULATIONS

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for

"not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID [\(P\) T-1 – Surge Tank \(fixed roof\)](#)

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	N/A	0.4	1.74	
HAPs	N/A	0.01	0.06	

INSTRUCTIONS FOR EMISS**EMISSION CALCULATIONS**

Use this form to quantify emissions for each significant emissions unit identified in section I of form **GIS**. This form will help you organize emissions data needed on forms **PTE** and **FEE**. Do not complete this form for any units or activities listed as insignificant on form **IE**. Sources applying for permit revisions only need complete this form for each emissions unit affected by the change.

Section A - The emissions unit ID should be the same as that used in section I of form **GIS**.

Section B - First, list each "regulated air pollutant" that is emitted by the unit. Please list each HAP separately. Most sources will not need to provide emissions estimates for GHG because GHGs do not count in major source determinations; however, list GHGs for any unit that is subject to an emissions limitation or standard for GHGs [e.g., GHG BACT or a section 111(b) or 111(d) standard].

Second, list any "regulated pollutant (for fee calculation)" emitted at the source that has not already been listed. If you will not be submitting form FEE with your application, you do not need to perform this step or calculate actual emissions. For fee purposes, fugitive emissions count the same as stack emissions. Any HAP that has not been listed up to this point may be simply listed as "HAP." Note that GHGs, carbon monoxide, Class I or II substances under title VI, and pollutants regulated solely by section 112(r) are exempt from fee payment.

Third, calculate the actual emissions of "regulated pollutants (for fee calculation)" that you listed in the step above. Actual emissions are calculated based on actual operating hours, productions rates, and in-place control equipment, and the types of materials used during the preceding calendar year. If you already have a permit, you should use the compliance methods required by the permit, such as monitoring or source test data, whenever possible; if not possible, you may use other federally recognized procedures.

Most sources will calculate actual emissions for the preceding calendar year. Sources that commenced operation during the preceding calendar year shall estimate emissions for the current calendar year. Certain sources have the option of estimating their actual emissions for the preceding calendar year, instead of calculating them based on actual emissions data, see the instructions for form **FEE** for more on this topic.

Your emission calculations may be based on generally available information rather than new source testing or studies not already required. If you have listed a pollutant but are unable to calculate its actual emissions without conducting new source testing or extensive studies, you may enter "UN" (for "unknown") in the space provided.

Values should be reported to the nearest tenth (0.1) of a ton; greater precision (i.e., more decimal places) may be used to report values if you believe it will result in a lower fee.

Fourth, calculate PTE for each "regulated air pollutant" you listed in the first step above. For pollutants not specifically regulated at this emission unit, do not calculate PTE in pounds/hour. You may stipulate that the unit alone triggers major source status for this pollutant by entering "MU" in the space provided for annual PTE values. You may stipulate that the unit does not trigger major source status, but that the aggregate facility emissions or another unit triggers major source status by entering "MS" in the space provided for annual PTE values.

Do not calculate PTE values for air pollutants listed solely for fee purposes, however, enter "NA" for "not applicable" in the space provided for PTE values for such emissions.

If you are unable to calculate PTE values for air pollutants counted for applicability purposes without conducting new source testing or extensive studies, enter "UN" (for "unknown") in the space provided.

Within applications for permit revisions, PTE should be calculated assuming the proposed change has occurred.

"Potential to emit" is defined as "the maximum capacity of a stationary source to emit any pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation is enforceable by the Administrator."

Values for PTE should be reported to the nearest tenth (0.1) of a ton or pounds (additional decimal places may be used to report values with greater precision if desired). After reviewing a submittal, the EPA may request additional information regarding the basis of the values reported on the forms (i.e., request to see values reported with greater precision, to the nearest 0.01 or 0.001).

Provide the chemical abstract service number (CAS No.), if available.

END

Federal Operating Permit Program (40 CFR Part 71)
POTENTIAL TO EMIT (PTE)

For each emissions unit at the facility, list the unit ID and the PTE of each air pollutant listed below and sum the values to determine the total PTE for the facility. It may be helpful to complete form **EMISS** before completing this form. Report each pollutant at each unit to the nearest tenth (0.1) of a ton; values may be reported with greater precision (i.e., more decimal places) if desired. Report facility total PTE for each listed pollutant on this form and in section **J** of form **GIS**. The HAP column is for the PTE of all HAPs for each unit. You may use an attachment to show any pollutants that may be present in major amounts that are not already listed on the form (this is not common).

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which Source is Major (PTE in tons/yr)						
	NO _x	VOC	SO ₂	PM ₁₀	CO	Lead	HAP
(P) M-1	-	9,679.53	-	-	-	-	299.83
(P) G-1	43.45	1.16	0.05	1.39	24.40	-	0.04
(P) G-2	43.45	1.16	0.05	1.39	24.40	-	0.04
(P) C-1	11.32	0.92	0.02	0.61	10.71	-	0.02
(P) DT-1	-	0.01	-	-	-	-	-
(P) BT-1	-	0.001	-	-	-	-	-
(P) BT-2	-	0.001	-	-	-	-	-
(P) BT-3	-	0.001	-	-	-	-	-
(P) BT-4	-	0.0001	-	-	-	-	-
(P) T-1	-	1.74	-	-	-	-	0.05
(P) FWP-1	0.11	0.01	-	0.01	0.10	-	-
(P) P-1	-	0.5	-	-	-	-	0.02
(P) F-1	-	0.12	-	-	-	-	0.01
(P) F-2	-	0.44	-	-	-	-	-
(P) S-1	-	0.05	-	-	-	-	-
(P) PM-1	-	0.002	-	-	-	-	-
(P) MSS-1	-	0.26	-	-	-	-	-
FACILITY TOTALS:	98.33	9,685.53	0.13	3.47	59.60	0.00	300.00

INSTRUCTIONS FOR POTENTIAL TO EMIT (PTE)

The purpose of this form is to calculate the total PTE for each regulated air pollutant (and pollutants for which the source is major) that are used in major source determinations. Do not include PTE for GHGs on this form (or an attachment), unless instructed by the permitting authority to do so.

On each line (row) in the table provided, enter the emissions unit ID and the quantity of each air pollutant identified on the form. If form **EMISS** was prepared previously, simply copy the annual PTE (or stipulations to major source status) contained on those forms to this form. Values should be reported to the nearest tenth (0.1) of a ton for each pollutant for each unit. The total PTE for the facility should be reported to the nearest ton.

Applicants may stipulate to major source status for an air pollutant and, thereby, avoid detailed PTE calculations. If a unit emits in major amounts, enter "MU" in the column for that air pollutant. If the facility is a major source for a pollutant but the emissions unit in question does not trigger major source status, enter "MS" in the space provided. If a listed pollutant is emitted at a unit but PTE cannot be calculated based on readily available information, enter "UN" (for "unknown") in the space provided. If the source is a major source for air pollutants not represented by columns on this form, please provide an attachment stipulating major source status or the calculation of the total for that air pollutant. The column for lead is for elemental lead regulated by a NAAQS, while compounds of lead are HAP.

The total line is provided at the bottom of each column to enter the total facility-wide PTE for each pollutant. Enter the total PTE for each pollutant and the name of the HAP emitted in the greatest amount, in section J of form **GIS**.

END

**Federal Operating Permit Program (40 CFR Part 71)
FEE CALCULATION WORKSHEET (FEE)**

Use this form initially, or thereafter on an annual basis, to calculate part 71 fees.

A. General Information

Type of fee (Check one): ☒ Initial ☐ Annual

Deadline for submitting fee calculation worksheet ____/____/____

For initial fees, emissions are based on (Check one):

☒ Actual emissions for the preceding calendar year. (Required in most circumstances.)

☐ Estimates of actual emissions for the current calendar year. (Required when operations commenced during the preceding calendar year.)

Date commenced operations ____/____/____

☐ Estimates of actual emissions for the preceding calendar year. (Optional after a part 71 permit was issued to replace a part 70 permit, but only if initial fee payment is due between January 1 and March 31; otherwise use actual emissions for the preceding calendar year.)

For annual fee payment, you are required to use actual emissions for the preceding calendar year.

B. Source Information: Complete this section only if you are paying fees but not applying for a permit.

Source or facility name _____

Mailing address: Street or P.O. Box _____

City _____ State _____ ZIP _____ - _____

Contact person _____ Title _____

Telephone (____) _____ - _____ Ext _____ Part 71 permit no. _____

C. Certification of Truth, Accuracy and Completeness: Only needed if not submitting a separate form CTAC.

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in this submittal (form and attachments) are true, accurate and complete.

Name (signed) _____

Name (typed) _____ Date: ____ / ____ / ____

D. Annual Emissions Report for Fee Calculation Purposes -- Non-HAP

You may use this to report actual emissions (tons per year) of regulated pollutants (for fee calculation) on a calendar-year basis for both initial and annual fee calculation purposes. Section E is designed to report HAP emissions. Quantify all actual emissions, including fugitives, but do not include insignificant emissions and certain regulated air pollutants that are not counted for fee purposes, such as CO and GHGs (see instructions). Sum the emissions in each column to calculate subtotals. Subtotals should be reported to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000 for that column.

This data is for: **SEE NOTE 1 BELOW**

Emission Unit ID	NOx	VOC	SO ₂	PM ₁₀	Lead	Other
(P) M-1						
(P) G-1						
(P) G-2						
(P) C-1						
(P) DT-1						
(P) BT-1						
(P) BT-2						
(P) BT-3						
(P) BT-4						
(P) T-1						
(P) FWP-1						
(P) P-1						
(P) F-1						
(P) F-2						
(P) S-1						
(P) PM-1						
(P) MSS-1						
SUBTOTALS:	0.00	0.00	0.00	0.00	0.00	0.00

NOTE 1: Project has not yet begun operations. There are no actual emissions to report.

E. Annual Emissions Report for Fee Calculation Purposes -- HAP

HAP Identification. Identify individual HAP emitted at the facility, identify the CAS number, and assign a unique identifier for use in the second table in this section. Whenever assigning identifier codes, use "HAP1" for the first, "HAP2" for the second, and so on.

Name of HAP	CAS No	Identifier
Acetaldehyde	75-07-0	H1
Benzene	71-43-2	H2
Isopropyl benzene	98-82-8	H3
Ethylbenzene	100-41-4	H4
Formaldehyde	50-00-0	H5
Hexane (-n)	110-54-3	H6
2,2,4-Trimethylpentane (Isooctane)	540-84-1	H7
Toluene	108-88-3	H8
Xylene (-m)	1330-20-7	H9

HAP Emissions. Report the actual emissions of individual HAP identified above. Use the identifiers assigned in the table above. Include all emissions, including fugitives, and do not include insignificant emissions. Sum the emissions in each column to calculate subtotals. Report subtotals to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000.

This data is for: **SEE NOTE 1 BELOW**

Emissions Unit ID	Actual Emissions (Tons/Year)							
	HAP__	HAP__	HAP__	HAP__	HAP__	HAP__	HAP__	HAP__
(P) M-1								
(P) G-1								
(P) G-2								
(P) C-1								
(P) DT-1								
(P) BT-1								
(P) BT-2								
(P) BT-3								
(P) BT-4								
(P) T-1								

Emissions Unit ID	Actual Emissions (Tons/Year)							
	HAP____	HAP____	HAP____	HAP____	HAP____	HAP____	HAP____	HAP____
(P) FWP-1								
(P) P-1								
(P) F-1								
(P) F-2								
(P) S-1								
(P) PM-1								
(P) MSS-1								
SUBTOTALS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NOTE 1: Project has not yet begun operations. There are no actual HAP emissions to report.

F. Fee Calculation Worksheet

This worksheet is used to calculate the total fee owed (including the emissions-based fee and the GHG fee adjustment) for both initial and annual fee payment purposes. Reconciliation is only for cases where you are paying the annual fee and you used any type of estimate of actual emissions when you calculated the initial fee. If you do not need to reconcile fees, complete line 1-5 (emissions summary) and then skip down to line 21 (emission calculation). See instructions for more detailed explanation.

EMISSIONS SUMMARY

1. Sum the subtotals from section D of this form (non-HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	0
2. Sum the subtotals from section E of this form (HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	0
3. Sum lines 1 and 2.	0
4. Enter the emissions that were counted twice. If none, enter "0."	0
5. Subtract line 4 from line 3, round to the nearest ton, and enter the result here. This is the total emissions that count for fees purposes.	0
<p style="text-align: center;">RECONCILIATION (WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "CURRENT" CALENDAR YEAR)</p> <p>Only complete lines 6-10 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year in which you paid initial fees; otherwise skip to line 11 or to line 21.</p>	

6. Enter the total estimated actual emissions for the year the initial fee was paid (previously reported on line 5 of the initial fee form).	N/A
7. If line 5 is greater than line 6, subtract line 6 from line 5, and enter the result. Otherwise enter "0."	0
8. If line 6 is greater than line 5, subtract line 5 from line 6, and enter the result. Otherwise enter "0."	0
9. If line 7 is greater than 0, multiply line 7 by last year's fee rate (\$/ton) and enter the result here. This is the underpayment. Go to line 21.	0
10. If line 8 is greater than 0, multiply line 8 by last year's fee rate (\$/ton) and enter the result here. This is the overpayment. Go to line 21.	0

**RECONCILIATION
(WHEN INITIAL FEES WERE BASED ON ESTIMATES
FOR THE "PRECEDING" CALENDAR YEAR)**

Only complete lines 11-20 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year preceding initial fee payment; otherwise skip to line 21. If completing this section, you will also need to complete sections D and E to report actual emissions for the calendar year preceding initial fee payment.

11. Sum the actual emissions from section D (non-HAP) for the calendar year preceding initial fee payment and enter the result here.	N/A
12. Sum the actual emissions from section E (HAP) for the calendar year preceding initial fee payment and enter the result here.	N/A
13. Add lines 11 and 12 and enter the total here. These are total actual emissions for the calendar year preceding initial fee payment.	N/A
14. Enter double counted emission from line 13 here. If none, enter "0."	0
15. Subtract line 14 from line 13, round to the nearest ton, and enter the result here.	N/A
16. Enter the total estimated actual emissions previously reported on line 5 of the initial fee form. These are estimated actual emissions for the calendar year preceding initial fee payment.	N/A
17. If line 15 is greater than line 16, subtract line 16 from line 15, and enter the result here. Otherwise enter "0."	0
18. If line 16 is greater than line 15, subtract line 15 from line 16, and enter the result here. Otherwise enter "0."	0
19. If line 17 is greater than 0, multiply line 17 by last year's fee rate (\$/ton) and enter the result here. This is the underpayment.	N/A
20. If line 18 is greater than 0, multiply line 18 by last year's fee rate (\$/ton) and enter the result on this line. This is the overpayment.	N/A

EMISSION FEE CALCULATION

21. Multiply line 5 (tons) by the current fee rate (\$/ton) and enter the result here. This is the unadjusted emissions fee. Continue on to line 23.	0
GHG FEE ADJUSTMENT	
22. If you are submitting an initial permit application and this is the first time you are paying fees, enter \$2,236, otherwise enter "0". [Note that any updates to the initial application are covered under this one-time charge.]	0
23. Enter the number of permit modifications (or related permit actions) you have submitted to the permitting authority since you last paid fees. If none, skip to line 25.	0
24. Multiply the number in line 23 by \$365 and enter the result.	0
25. If you have submitted a permit renewal application since the last time you paid fees enter \$520, otherwise enter "0"	0
26. Sum line 22, 24, and 25 and enter the result. This is the GHG fee adjustment	0
OTHER ADJUSTMENTS	
27. Add the total on line 21 and the total on line 26 and enter the result.	0
28. Enter any underpayment from line 9 or 19 here. Otherwise enter "0."	0
29. Enter any overpayment from line 10 or 20 here. Otherwise enter "0."	0
30. If line 28 is greater than "0," add it to line 27 and enter the result here. If line 29 is greater than "0," subtract this from line 27 and enter the result here. Otherwise enter the amount on line 27 here. This is the fee adjusted for over/underpayment.	0
31. Enter any credit for fee assessment error here. Otherwise, enter "0."	0
32. Subtract line 31 from line 30 and enter the result here. Stop here. This is the TOTAL FEE (AFTER ADJUSTMENTS) that you must remit to EPA.	0

INSTRUCTIONS FOR FEE FEE CALCULATION WORKSHEET

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

Use this form to initially or annually calculate fees. This form is for paying fees to EPA or a delegate agency (such as a State or tribe) under a part 71 operating permit program. The requirements for paying fees under part 71 programs, as well as the forms and instructions contained herein, are based on the requirements of 40 CFR 71.9

There may be cases, under a part 71 program, when you are not required to complete this form or pay the EPA fee rate (where the part 71 program has been delegated and EPA's fee has been suspended because EPA incurs no administrative costs). In such cases, the delegate agency will instruct you on how to calculate fees and how to pay them. If in doubt, contact your permitting authority.

General Rules for Fee Calculation under Part 71:

- Use the fee rate in effect at the time you pay the fee regardless of the time period that the emissions data represents. For example, if the annual fee for the current year is due July 1, you would use the fee rate in effect for the current year and the actual emissions for the previous calendar year.
- Do not prorate initial or annual fees. Pay full fees for the entire calendar year regardless of how many days you operated or were subject to the program during the previous or current year.
- Do not hesitate to contact the permitting authority if you have any doubt about how to calculate fees, especially if you have an unusual set of circumstances not addressed specifically by these forms or whenever the permit requirements appear to conflict with these forms (however, always assume the permit requirements take precedence in such cases).

Section A. General Information

The deadline for submitting the fee form and paying the fee for initial fee payment purposes for most sources is the same deadline as for submitting all other forms required for the initial permit application. Other deadlines apply for initial fee payment in certain limited circumstances:

- When a source is subject to part 71 because of an unresolved EPA objection to a part 70 permit, fees are not due with the part 71 application, but are due 3 months following the date of the issuance of the part 71 permit.
- When EPA withdraws approval of a part 70 program and implements a part 71 program, fees are submitted according to a schedule based on the source's SIC code (within 6 to 9 months of the effective date of the part 71 program).

The deadline for submitting the fee form and paying the fee for annual fee payment purposes is the anniversary date of initial fee payment. This is required whether or not a permit has been issued. If you were required to pay initial fees between January 1 and March 31, the regulations allow for submittal of annual fees no later than April 1.

Whether you are paying initial or annual fees see the instructions for sections D and E for more information on which calendar-year emission data to use (preceding or current year) and how to quantify such emissions (actual emissions or estimates of actual emissions).

Section B. Source Information

Complete this section only if you are preparing this form for submittal at a different time than for the other portions of an initial application or for annual fee purposes.

Section C. Certification of Truth, Accuracy and Completeness

This form and any other document required by a permit must be signed by a responsible official certifying truth, accuracy and completeness of the information. If you are submitting a separate **CTAC** form, there is no need to complete this section of the form. If you complete this section, there is no need to submit form **CTAC** separately.

Section D. Annual Emissions Report for Fee Calculation Purposes – Non-HAP

Calculate actual emissions of regulated pollutants (for fee calculation), except for HAP, on a calendar-year basis for the facility in this section. Section E is provided to report actual emissions of HAP. Note the phrase “regulated pollutant (for fee calculation)” is any “regulated air pollutant” except carbon monoxide (CO), and pollutants regulated solely because they are: 1) subject to regulation under section 112(r) of the Act, or 2) a class I or II substance under title VI of the Act. **Note that GHG emissions are not counted for fee purposes.**

If more than one year of data is being submitted with the fee calculation worksheet, copy this page and complete a separate table for each year. If you are submitting an initial application, you may use emissions data already reported on form **EMISS**, provided this is the same data you would otherwise report in sections D and E of this form. If using **EMISS** in this manner, please note this on the fee calculation form. Also, sources must submit attachments to this form to show (at a minimum) examples of the calculations used to determine these values.

Show actual emissions for each listed air pollutant for each emission unit. Values should be reported to the nearest tenth (0.1) of a ton.

The column for "other" is for other regulated pollutants (for fee calculation) not already listed on the form. Write in the name of the pollutant in the proximity of the "other" column. If more than one such pollutant, show the pollutants, and the totals on an attachment.

Actual emissions must be calculated using actual operating hours, production rates, in-place control equipment, and types of materials processed, stored, or combusted over the preceding calendar year. Sources that have been issued title V permits are required to compute actual emissions using compliance methods required by the permits, such as monitoring or source testing data. If this is not possible, actual emissions should be determined using other federally recognized procedures.

For initial fee calculation purposes, most sources are required to use actual emissions for the preceding calendar year. However, there are certain exceptions where estimates of actual emissions are either required or allowed in place of actual emissions for the preceding calendar year (see table below):

Exception	Emission Data
When the source commenced operation during the preceding calendar year.	Estimates of actual emissions for the "current" calendar year are required
When EPA withdraws approval of a part 70 program and implements a part 71 program, and the source pays initial part 71 fees between January 1 and March	Either estimates of actual emissions for the "preceding" calendar year or actual emissions for the preceding calendar year may be used.
When a part 71 permit was issued following an unresolved objection to a part 70 permit, and the source is required to pay initial part 71 fees between January 1 and March 31.	Either estimates of actual emissions for the "preceding" calendar year or actual emissions for the preceding calendar year may be used.

For annual fee purposes, fee calculation should be based on actual emissions for the preceding calendar year in all cases.

In most cases you will only need to report one set of emission data using sections D and E of this form (the data that is the basis of the initial or annual fee being paid as explained above). This data is subsequently carried over to lines 1 and 2 of section F (Fee Calculation Worksheet) of the form.

However, there is one exception where you would be required to report two different sets of emissions data using sections D and E – when paying the first annual fee and reconciliation is required because the initial fee was based on estimated actual emissions for the "preceding" calendar year (the year preceding initial fee payment). In this case, the two data sets would be:

- actual emissions for the year initial fees paid (for annual fee purposes in lines 1-5 of section F of the form), and
- actual emissions for the year preceding initial fee payment (for reconciliation in lines 11-20 of the form)

Whenever reconciliation is required as part of annual fee payment, you will also need a copy of the fee forms you previously submitted with initial fee payment in order to obtain the value of estimated actual emissions.

Include all fugitive emissions in the calculation of actual emissions, including those that do not count for applicability. Do not include any insignificant emissions identified on form **IE**.

The subtotal line in section D of the form is provided at the bottom of each column to enter total emissions for each pollutant reported above. Each subtotal should be reported to the nearest tenth (0.1) of a ton. If any subtotal exceeds 4,000 tons, enter 4,000 tons for that column.

Any necessary adjustments for double counting of emissions will be performed later in section F.

Section E. Annual Emissions Report for Fee Calculation Purposes -- HAP

List the actual emissions of individual HAP from each emission unit. If you are initially applying for a permit, you may use the emissions of HAP reported on form **EMISS**, instead of completing this section of this form, provided these emissions are the same as you would otherwise report using this section of the form. If you are doing this, please note it on the form.

This section is composed of two tables. The first table is to identify individual HAP emitted at each emission unit. Assign a unique identifier for use in the second table. Please use "HAP1" for the first

one, "HAP2" for the second one, and so on. The second table is to calculate the actual emission of individual HAP at each emission unit. Use the identifiers assigned in the first table to label the column headers for the second table. You may round and report these emissions to the nearest tenth (0.1) of a ton. Sum the values in each column and enter the subtotals at the bottom of the table. If any subtotal exceeds 4,000 tons, enter 4,000 for that column.

See instructions for section D for more information on reporting emissions data.

Section F. Fee Calculation Worksheet

This worksheet is used to sum the total tons of actual emissions subject to fees, adjust for double counting of emissions, perform certain reconciliations for underpayment and overpayment of fees and adjust for fee assessment errors, if needed, and ultimately to determine the total fee to be paid.

A detailed explanation of Section F follows (separated into six parts):

Emissions Summary

The subtotals for each pollutant listed in Sections D and E (or from form **EMISS**) are added together to calculate the total emissions (in tons per year) for the facility.

The emissions that are reported here will vary for initial fee payment purposes, depending on the specific circumstances, but will always be actual emissions for the preceding calendar year for annual fee purposes. See the instructions for section D for more on the emissions data you should use in the part of the form.

The total emissions are adjusted for double counting and are rounded to the nearest ton. For example, double counting may occur where a pollutant is defined as HAP and VOC. If you adjust for double counting, attach an explanation for this.

Reconciliation (When Initial Emission Fees Were Based on Estimates for the Current Calendar Year)

This section is only used by sources paying their first annual fee when their initial fee was based on estimates of calendar-year emissions for the "current" year (the same year that initial fees were paid). This reconciliation is done by comparing the actual emissions for the "current" year provided in sections D and E of this submittal with the estimate of those emissions previously provided with initial fee payment. There may have been overpayment or underpayment of the initial fee. The fee you are paying now will be adjusted for this difference later.

Reconciliation (When Initial Emission Fees Were Based on Estimates for the Preceding Calendar Year)

This section is only used by sources paying their first annual fee when their initial fee was based on estimates of calendar-year emissions for the year preceding initial fee payment, provided the source was required to pay its initial fee between January 1 and March 31, and EPA issued the Part 71 permit to replace a Part 70 permit. This reconciliation is done by comparing the actual emissions for the "preceding" year provided in sections D and E of this submittal with the estimate of those emissions provided with initial fee payment. There may have been overpayment or underpayment of the initial fee. The fee you are paying now will be adjusted for this difference later.

Emission Fee Calculation

Calculate the emission-based fee using the emissions from line 5 (tons) multiplied by the fee rate (\$/ton) in effect at the time the fee is paid.

GHG Fee Adjustment

The part 71 rule was amended in 2015 to require the fees to be increased by a GHG fee adjustment. The GHG adjustment must be calculated by each source that is required to pay fees. The adjustment is based on the burden for the permitting authority to conduct certain GHG evaluations or reviews related to the source, rather than on emissions. Set fees are charged for certain activities that have occurred at the source since the last time fees were paid. For an initial application, the set fee is a one-time charge that includes the costs of processing application updates. The term "permit modification" refers to any significant and minor modifications, but not to administrative amendments. The number of permit modifications must be multiplied by the set fee for modifications to determine the total GHG adjustment for modifications. The set fee for a permit renewal also includes any permit modifications that may be processed at the same time as the renewal. Note that you may need to check with the permitting authority to determine if they are holding any permit modification requests you have submitted for processing with an upcoming permit renewal.

Other Adjustments

The purpose of this section is to adjust the emissions-based to determine the total fee (after adjustments) that is due to the EPA. The emissions fee determined on line 21 is adjusted by the GHG fee adjustment, any amounts of overpayment or underpayment related to a previous fee submittal, and to correct for any fee assessment errors.

Fee assessment errors occur when the permitting authority determines that the source has calculated the fee incorrectly. If this occurs, you will be notified of the error. Any overpayment will be credited against the next fee owed. In the case of underpayment, you will be billed for the corrected fee and you will have 30 days to remit the amount. If you think the assessed fee is in error, you may submit a written explanation of the alleged error, but you must pay the fee. The permitting authority will provide a determination in 90 days. If the assessment of underpayment is in error, your account will be credited.

Fee Payment

See form **FF** (the Fee Filing form) for instructions on how to make fee payment to the EPA.

Penalties and Interest

The permitting authority will bill sources for appropriate penalties and interest for late payment or excessive underpayment of fees. Interest will be assessed on payments received later than the due date. Penalties shall be assessed if payment is not paid within 30 days of the due date. For sources issued with issued permits, penalties and interest shall be assessed for excessive underpayment of the annual fee amount.

END

**Federal Operating Permit Program (40 CFR Part 71)
FEE FILING FORM (FF)**

The purpose of this form is to ensure that fee payments made by check are credited to the proper facility and to the proper government account. Send this form, along with form **FEE** and the check, to the appropriate lockbox bank address listed on the following page. This form is required whenever you pay by check, including for initial fee payment and to pay annual fees. Part 71 fees may be paid by check or electronically, and further information on making payments by check or electronically is provided on the following page.

Source or Facility Name: Texas Gulflink Project

Source Location: The site is approximately 32.5 nautical miles off the coast of Brazoria County, Texas.

EPA Region where Source Located: 6

Mailing Address:

Street/P.O. Box 8333 Douglas Ave., Ste. 400

City Dallas

State TX ZIP 75225 -

Contact Person: Mr. Jeff Ballard

Title President and CEO

Telephone (214) 712- 2140 Ext.

Total Fee Payment Remitted: \$ 0.00

TWO PAYMENT OPTIONS FOR PART 71 FEES:

OPTION 1 - CHECK PAYMENT VIA U.S. POSTAL SERVICE

- Fee payment shall be in U.S. currency drawn on a U.S. bank.
- Check should be made out to the order of the "U.S. Environmental Protection Agency."
- Indicate on the check that the payment is for "Part 71 Fee Payment."
- Make a photocopy of the check.
- **Send the following to the EPA region (or delegate agency):**
 - ✓ Form *FEE* (EPA Form 5900-03) and
 - ✓ Photocopy of check
- **Send the following to the address below:**
 - ✓ Form *FF* (EPA Form 5900-06) and
 - ✓ Original check

<i>Address for Regular Mail (U.S. Postal Service):</i>
U.S. EPA OCFO/OC/ACAD/FCB Attn: Collections Team 1300 Pennsylvania Ave NW Mail Code 2733R Washington, DC 20004

- **Tips for Completing form FF (Fee Filing Form)**
 - **Source Location:** Physical location - Street address (if any), City, County, and State.
 - **Mailing Address:** Address for the EPA to send correspondence. This address may be different from the source location, such as a corporate office.
 - **EPA Region:** EPA region in which the source is located (e.g., EPA Region 8).
 - **Contact:** Person that can best answer questions concerning fee payment.

OPTION 2 – ONLINE PAYMENT

- Part 71 fees can be paid online at www.pay.gov using form "**SFO 1.1 (EPA Miscellaneous Payments - Cincinnati Finance Center)**." *Note that EPA Form 5900-06 cannot be used for online payments.*
- **Tips for completing online form SFO 1.1:**
 - From the "Type of Payment" drop down menu, select "Other/Miscellaneous"
 - On the "Bill# or description" line, enter "Part 71 Fee Payment"
 - In the "Comments" box, enter the source or facility name and the part 71 permit number associated with this payment.
- **After submitting payment online, send the following to the EPA region (or delegate agency):**
 - Form *FEE* (EPA Form 5900-03) and
 - Copy of the electronic payment confirmation generated by the online payment system.
- **FOR MORE INFORMATION:** The following link provides detailed information on how to make payments to EPA for part 71 fees, penalties, and interest, including contact information for EPA's Accounts Receivable Branch in Cincinnati <https://www.epa.gov/financial/makepayment>
- Questions/inquiries may be sent to: CollectionInquiryMailbox@epa.gov
Laura Collier - collier.laura@epa.gov
Stacey Church - church.stacey@epa.gov

**Federal Operating Permit Program (40 CFR Part 71)
INITIAL COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION (I-COMP)****SECTION A – COMPLIANCE STATUS AND COMPLIANCE PLAN**

Complete this section for each unique combination of applicable requirements and emissions units at the facility. List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the applicable requirement described above. Indicate your compliance status at this time for this requirement and compliance methods and check “YES” or “NO” to the follow-up question.

Emission Unit ID(s): Deepwater Port Facility (all EPNs)

Applicable Requirement (Describe and Cite)

The proposed facility has not yet been constructed. Therefore, the requirements of 40 CFR 71.5(c)(8) do not apply, except for 71.5(c)(8)(ii)(B). See following statement.

Compliance Methods for the Above (Description and Citation):

When constructed, the proposed offshore deepwater port facility will be in compliance with all regulatory requirements as they become applicable at the site.

Compliance Status:

☐ In Compliance: Will you continue to comply up to permit issuance? ☐ Yes ☐ No☐ Not In Compliance: Will you be in compliance at permit issuance? ☐ Yes ☐ No☐ Future-Effective Requirement: Do you expect to meet this on a timely basis? ☐ Yes ☐ No

Emission Unit ID(s):

Applicable Requirement (Description and Citation):

Compliance Methods for the Above (Description and Citation):

Compliance Status:

☐ In Compliance: Will you continue to comply up to permit issuance? ☐ Yes ☐ No☐ Not In Compliance: Will you be in compliance at permit issuance? ☐ Yes ☐ No☐ Future-Effective Requirement: Do you expect to meet this on a timely basis? ☐ Yes ☐ No

B. SCHEDULE OF COMPLIANCE

Complete this section if you answered "NO" to any of the questions in section A. Also, complete this section if required to submit a schedule of compliance by an applicable requirement. Please attach copies of any judicial consent decrees or administrative orders for this requirement.

Unit(s)_____ Requirement_____

Reason for Noncompliance. Briefly explain reason for noncompliance at time of permit issuance or that future-effective requirement will not be met on a timely basis:

Narrative Description of how Source Compliance Will be Achieved. Briefly explain your plan for achieving compliance:

Schedule of Compliance. Provide a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance, including a date for final compliance.

Remedial Measure or Action	Date to be Achieved

C. SCHEDULE FOR SUBMISSION OF PROGRESS REPORTS

Only complete this section if you are required to submit one or more schedules of compliance in section B or if an applicable requirement requires submittal of a progress report. If a schedule of compliance is required, your progress report should start within 6 months of application submittal and subsequently, no less than every six months. One progress report may include information on multiple schedules of compliance.

<p>Contents of Progress Report (describe):</p> <p>First Report____/____/____ Frequency of Submittal_____</p>
<p>Contents of Progress Report (describe):</p> <p>First Report____/____/____ Frequency of Submittal_____</p>

D. SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATIONS

This section must be completed once by every source. Indicate when you would prefer to submit compliance certifications during the term of your permit (at least once per year).

Frequency of submittal _____ Beginning ____/____/____

E. COMPLIANCE WITH ENHANCED MONITORING & COMPLIANCE CERTIFICATION REQUIREMENTS

This section must be completed once by every source. To certify compliance with these, you must be able to certify compliance for every applicable requirement related to monitoring and compliance certification at every unit.

Enhanced Monitoring Requirements: ____ In Compliance ____ Not In Compliance

Compliance Certification Requirements: ____ In Compliance ____ Not In Compliance

INSTRUCTIONS FOR I-COMP**INITIAL COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION****Section A (Compliance Status and Compliance Plan)**

Description of Applicable Requirement: Complete Section A for each unique combination of applicable requirements (emission limitations, standards or other similar requirements of federal rules, SIP, TIP, FIP, or federally-enforceable permits) that apply to particular emissions units. You will likely have to complete this section numerous times to include all requirements at all emission units.

The emissions unit ID(s) should be the ones defined in section I of form GIS. If the requirement, including compliance method, applies in the same way to multiple emission units, you may list multiple units for a particular requirement.

The descriptions here should be detailed to the individual requirement level, rather than the standard level (if a MACT applies to you, describe each requirement of the MACT, rather than just a citation to the MACT as a whole). If the requirement imposes a particular numerical limit or range, include that in your description.

Citations to the requirements should unambiguously identify the requirement to the lowest level necessary.

Compliance Methods: List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the applicable requirement described above. Such methods may be required by the applicable requirements or performed for other reasons. List all compliance methods required by applicable requirements, whether you used them to determine compliance or not.

To describe monitoring, indicate the monitoring device, the equipment, process, or pollutant monitored, averaging time, frequency, and a citation or cross-reference to the requirement. To describe recordkeeping, describe the records kept, the frequency of collection, and include a citation or cross-reference to the requirement. Please indicate whether monitoring data, results, or other records kept for compliance purposes may be kept on-site rather than reported. To describe reporting requirements, describe what is reported, when it is reported, and cite or cross-reference the requirement.

The citation or cross-reference here must unambiguously identify the requirement to the lowest level necessary.

Note that Compliance Assurance Monitoring (CAM) under part 64 is also an applicable requirement that may impose compliance methods for title V sources and require the submittal of a CAM plan with this application. Also note that periodic monitoring (which may be monitoring or recordkeeping designed to serve as monitoring) under part 71 may be required in certain limited circumstances: when there is no monitoring required, monitoring is required but there is no frequency specified, or only a one-time test is required. You may propose periodic monitoring in your application, but the permitting authority will make the final decision. If you wish to propose periodic monitoring, please do so in an attachment that clearly identifies the requirements, the units they apply to, and what you propose for periodic monitoring.

Compliance Status: For each requirement and associated compliance methods described above, indicate whether you are in compliance, not in compliance, or it is a future-effective requirement (only check one). This is with respect to your compliance status at the time of application submittal. You should consider all available information or knowledge that you have when evaluating your compliance status, including reference test methods and other compliance requirements that are required directly by a statute, regulation, or permit and "credible evidence" (e.g., non-reference test methods and other information "readily available" to you and already being utilized by you). For each compliance status indication, you must answer "YES" or "NO" as to your expectations for continuing (or future) compliance. If you answer "NO" to any of these questions, you will have to complete the schedule of compliance section (section B).

Section B (Schedule of Compliance)

Complete this section if you answered “NO” to any of the questions in section A. Regardless of how you answered the questions in section A, complete this section if required to have a schedule of compliance by an applicable requirement, or if a judicial consent decree or administrative order includes a schedule of compliance.

Identify the applicable requirement using the same information you used in section A. Provide a brief explanation of the reason for noncompliance (either now or in the future). [e.g., “do not have control device required as BACT.”] Next, provide a brief description of what the schedule of compliance is trying to achieve. Then in the table provided, include a detailed schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with the applicable requirement. This schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance must be supplemental to, and not sanction noncompliance with, the applicable requirements on which it is based. For each remedial measure, provide the date by which the action will be completed. This schedule or one approved by the permitting authority will be included in the permit.

Lastly, attach a copy of any judicial consent decrees or administrative orders for which you are providing a schedule of compliance.

Section C (Schedule for Submission of Progress Reports)

If you must submit one or more schedules of compliance (specified in section B), or if an applicable requirement requires submittal of a progress report, complete this section. Progress reports describe your progress in meeting the milestone dates for the remedial measures required by the schedule of compliance. Progress reports must be submitted at least every 6 months, but specific applicable requirements may require them more frequently. One progress report may include information on one or more schedules of compliance. Describe the contents of the progress report, including the date that your facility will begin submitting them and the frequency they will be submitted.

Section D (Schedule for Submission of Compliance Certifications)

All applicants must complete this section. Compliance certifications must be submitted at least every year unless the applicable requirement or EPA requires them more frequently. Provide the date when the first compliance certification will be sent.

Section E (Compliance Status for Enhanced Monitoring and Compliance Certification)

All applicants must complete this section. The completion of this section does not satisfy the requirement for the responsible official to submit a certification of truth, accuracy, and completeness (instead, this is met by completing form CTAC and submitting it with the other forms you send to EPA).

To certify compliance with “Enhanced Monitoring,” you must be in compliance at all emission units with CAM and “Periodic Monitoring” [required by 40 CFR 71.6(a)(3)(i)(B)], if they apply. “Compliance Certification Requirements” include requirements for compliance certification in title V applications and permits, and possibly through applicable requirements (e.g., certain MACT standards). If you have fully completed sections A - E of this form, you will be in compliance with the compliance certification requirement for applications. If you do not have a title V permit at this time, you can assume you are in compliance with the compliance certification requirements for permits and with periodic monitoring requirements. If you indicate you are “not in compliance” with either of these requirements, attach an explanation.

END



OMB No. 2060-0336,
Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)
CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible Official

Name: (Last) Ballard (First) Jeff (MI) _____

Title President and CEO

Street or P.O. Box 8333 Douglas Ave., Ste. 400

City Dallas State TX ZIP 75225 - _____

Telephone (214) 712-2140 Ext. _____ Facsimile (____) _____ - _____

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) _____

Name (typed) Jeff Ballard Date: ____ / ____ / ____

INSTRUCTIONS FOR CTAC CERTIFICATION OF TRUTH, ACURACY, and COMPLETENESS

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

This form is for the responsible official to certify that submitted documents (i.e., permit applications, updates to application, reports, and any other information required to be submitted as a condition of a permit) are true, accurate, and complete.

This form should be completed and submitted with each set of documents sent to the permitting authority. It may be used at time of initial application, at each step of a phased application submittal, for application updates, as well as to accompany routine submittals required as a term or condition of a permit.

Section A - Title V permit applications must be signed by a responsible official. The definition of responsible official can be found at 40 CFR 70.2.

Section B - The responsible official must sign and date the certification of truth, accuracy and completeness. This should be done after all application forms are complete and the responsible official has reviewed the information. Normally this would be the last form completed before the package of forms is mailed to the permitting authority.